

Appendix D

Analytical Laboratory Results

See Attached Zip File with Analytical Reports



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Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

Report Summary

Wednesday April 01, 2015

Report Number: L756250

Samples Received: 03/28/15

Client Project: 1495001

Description: BB6RR 23 and 25E Soil Remediation

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BI0041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 01, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation
Sample ID : R23P079Q-PREXCSSE11-1FT
Collected By : Andrew Simmons
Collection Date : 03/27/15 15:24

ESC Sample # : L756250-01

Site ID : R23P079Q-

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.2	0.100	%	2540 G-2011	03/31/15	1
Mercury	0.020	0.020	mg/kg	7471A	03/30/15	1
Arsenic	4.9	2.0	mg/kg	6010B	03/31/15	1
Barium	50.	0.50	mg/kg	6010B	03/31/15	1
Cadmium	BDL	0.50	mg/kg	6010B	03/31/15	1
Chromium	16.	1.0	mg/kg	6010B	03/31/15	1
Lead	220	0.50	mg/kg	6010B	03/31/15	1
Selenium	BDL	2.0	mg/kg	6010B	03/31/15	1
Silver	BDL	1.0	mg/kg	6010B	03/31/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 01, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation
Sample ID : R23P079Q-PREXCSSC15-1FT
Collected By : Andrew Simmons
Collection Date : 03/27/15 15:35

ESC Sample # : L756250-02

Site ID : R23P079Q-

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	72.4	0.100	%	2540 G-2011	03/31/15	1
Mercury	0.025	0.020	mg/kg	7471A	03/30/15	1
Arsenic	5.0	2.0	mg/kg	6010B	03/31/15	1
Barium	86.	0.50	mg/kg	6010B	03/31/15	1
Cadmium	BDL	0.50	mg/kg	6010B	03/31/15	1
Chromium	11.	1.0	mg/kg	6010B	03/31/15	1
Lead	240	0.50	mg/kg	6010B	03/31/15	1
Selenium	BDL	2.0	mg/kg	6010B	03/31/15	1
Silver	BDL	1.0	mg/kg	6010B	03/31/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 01, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation
Sample ID : R23P079Q-PREXCSSD16-1FT
Collected By : Andrew Simmons
Collection Date : 03/27/15 15:38

ESC Sample # : L756250-03

Site ID : R23P079Q-

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.1	0.100	%	2540 G-2011	03/31/15	1
Mercury	BDL	0.020	mg/kg	7471A	03/30/15	1
Arsenic	3.6	2.0	mg/kg	6010B	03/31/15	1
Barium	120	0.50	mg/kg	6010B	03/31/15	1
Cadmium	BDL	0.50	mg/kg	6010B	03/31/15	1
Chromium	9.6	1.0	mg/kg	6010B	03/31/15	1
Lead	400	0.50	mg/kg	6010B	03/31/15	1
Selenium	BDL	2.0	mg/kg	6010B	03/31/15	1
Silver	BDL	1.0	mg/kg	6010B	03/31/15	1

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 01, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation

Sample ID : R23P079Q-PREXCSSC4-1FT

Collected By : Andrew Simmons
Collection Date : 03/27/15 15:43

ESC Sample # : L756250-04

Site ID : R23P079Q-

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.2	0.100	%	2540 G-2011	03/31/15	1
Mercury	0.026	0.020	mg/kg	7471A	03/30/15	1
Arsenic	2.8	2.0	mg/kg	6010B	03/31/15	1
Barium	88.	0.50	mg/kg	6010B	03/31/15	1
Cadmium	BDL	0.50	mg/kg	6010B	03/31/15	1
Chromium	11.	1.0	mg/kg	6010B	03/31/15	1
Lead	420	0.50	mg/kg	6010B	03/31/15	1
Selenium	BDL	2.0	mg/kg	6010B	03/31/15	1
Silver	BDL	1.0	mg/kg	6010B	03/31/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 01, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation

Sample ID : R23P079Q-PREXCSSB2-1FT

Collected By : Andrew Simmons
Collection Date : 03/27/15 15:29

ESC Sample # : L756250-05

Site ID : R23P079Q-

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.3	0.100	%	2540 G-2011	03/31/15	1
Mercury	0.031	0.020	mg/kg	7471A	03/30/15	1
Arsenic	3.3	2.0	mg/kg	6010B	03/31/15	1
Barium	120	0.50	mg/kg	6010B	03/31/15	1
Cadmium	BDL	0.50	mg/kg	6010B	03/31/15	1
Chromium	11.	1.0	mg/kg	6010B	03/31/15	1
Lead	240	0.50	mg/kg	6010B	03/31/15	1
Selenium	BDL	2.0	mg/kg	6010B	03/31/15	1
Silver	BDL	1.0	mg/kg	6010B	03/31/15	1

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 01, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation
Sample ID : R23P079Q-PREXCSSA17-1FT
Collected By : Andrew Simmons
Collection Date : 03/27/15 15:48

ESC Sample # : L756250-06

Site ID : R23P079Q-

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.8	0.100	%	2540 G-2011	03/31/15	1
Mercury	BDL	0.020	mg/kg	7471A	03/30/15	1
Arsenic	4.6	2.0	mg/kg	6010B	03/31/15	1
Barium	67.	0.50	mg/kg	6010B	03/31/15	1
Cadmium	BDL	0.50	mg/kg	6010B	03/31/15	1
Chromium	8.1	1.0	mg/kg	6010B	03/31/15	1
Lead	280	0.50	mg/kg	6010B	03/31/15	1
Selenium	BDL	2.0	mg/kg	6010B	03/31/15	1
Silver	BDL	1.0	mg/kg	6010B	03/31/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

Report Summary

Monday March 30, 2015

Report Number: L756256

Samples Received: 03/28/15

Client Project: 1495001

Description: BBGRR 23 and 25E Soil Remediation

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BI0041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
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MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

March 30, 2015

Date Received : March 28, 2015
Description : BBGRR 23 and 25E Soil Remediation
Sample ID : R23P079Q-QCS1
Collected By : Andrew Simmons
Collection Date : 03/24/15 11:45

ESC Sample # : L756256-01

Site ID : R23P079Q

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	BDL	0.0050	mg/l	200.7	03/29/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 03/30/15 09:02 Printed: 03/30/15 09:03



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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

March 30, 2015

Date Received : March 28, 2015
Description : BBGRR 23 and 25E Soil Remediation
Sample ID : R23P079Q-QCS2
Collected By : Andrew Simmons
Collection Date : 03/24/15 16:38

ESC Sample # : L756256-02

Site ID : R23P079Q

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	BDL	0.0050	mg/l	200.7	03/29/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 03/30/15 09:02 Printed: 03/30/15 09:03



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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

March 30, 2015

Date Received : March 28, 2015
Description : BBGRR 23 and 25E Soil Remediation
Sample ID : R23P079Q-QCS3
Collected By : Andrew Simmons
Collection Date : 03/25/15 08:43

ESC Sample # : L756256-03

Site ID : R23P079Q

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	BDL	0.0050	mg/l	200.7	03/29/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 03/30/15 09:02 Printed: 03/30/15 09:03



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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

March 30, 2015

Date Received : March 28, 2015
Description : BBGRR 23 and 25E Soil Remediation
Sample ID : R23P079Q-QCS4
Collected By : Andrew Simmons
Collection Date : 03/25/15 11:23

ESC Sample # : L756256-04

Site ID : R23P079Q

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	BDL	0.0050	mg/l	200.7	03/29/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

March 30, 2015

Date Received : March 28, 2015
Description : BBGRR 23 and 25E Soil Remediation
Sample ID : R23P079Q-QCS5
Collected By : Andrew Simmons
Collection Date : 03/25/15 14:53

ESC Sample # : L756256-05

Site ID : R23P079Q

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	BDL	0.0050	mg/l	200.7	03/29/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

March 30, 2015

Date Received : March 28, 2015
Description : BBGRR 23 and 25E Soil Remediation
Sample ID : R23P079Q-QCS6
Collected By : Andrew Simmons
Collection Date : 03/25/15 16:52

ESC Sample # : L756256-06

Site ID : R23P079Q

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	BDL	0.0050	mg/l	200.7	03/29/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

March 30, 2015

Date Received : March 28, 2015
Description : BBGRR 23 and 25E Soil Remediation
Sample ID : R23P079Q-QCS7
Collected By : Andrew Simmons
Collection Date : 03/26/15 09:14

ESC Sample # : L756256-07

Site ID : R23P079Q

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	BDL	0.0050	mg/l	200.7	03/29/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

March 30, 2015

Date Received : March 28, 2015
Description : BBGRR 23 and 25E Soil Remediation
Sample ID : R23P079Q-QCS8
Collected By : Andrew Simmons
Collection Date : 03/26/15 16:50

ESC Sample # : L756256-08

Site ID : R23P079Q

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	BDL	0.0050	mg/l	200.7	03/29/15	1

BDL - Below Detection Limit

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Golden, CO 80020

March 30, 2015

Date Received : March 28, 2015
Description : BBGRR 23 and 25E Soil Remediation
Sample ID : R23P079Q-QCS-BLANK1
Collected By : Andrew Simmons
Collection Date : 03/27/15 17:05

ESC Sample # : L756256-09

Site ID : R23P079Q

Project # : 1495001

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Lead	BDL	0.0050	mg/l	200.7	03/29/15	1

BDL - Below Detection Limit

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Golden, CO 80020

Report Summary

Monday April 13, 2015

Report Number: L758284

Samples Received: 03/28/15

Client Project: 1495001

Description: BB6RR 23 and 25E Soil Remediation

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Entire Report Reviewed By:

Daphne Richards, ESC Representative

Laboratory Certification Numbers

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SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

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April 13, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation
Sample ID : R23P079Q-PREXCSSE11-1FT
Collected By : Andrew Simmons
Collection Date : 03/27/15 15:24

ESC Sample # : L758284-01

Site ID : R23P079Q-

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.2		%	2540 G-2011	03/31/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/12/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Est. 1970

REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 13, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation
Sample ID : R23P079Q-PREXCSSC15-1FT
Collected By : Andrew Simmons
Collection Date : 03/27/15 15:35

ESC Sample # : L758284-02

Site ID : R23P079Q-

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	72.4		%	2540 G-2011	03/31/15	1
Antimony	BDL	2.8	mg/kg	6010B	04/12/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 13, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation
Sample ID : R23P079Q-PREXCSSD16-1FT
Collected By : Andrew Simmons
Collection Date : 03/27/15 15:38

ESC Sample # : L758284-03

Site ID : R23P079Q-

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.1		%	2540 G-2011	03/31/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/12/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 13, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation
Sample ID : R23P079Q-PREXCSSC4-1FT
Collected By : Andrew Simmons
Collection Date : 03/27/15 15:43

ESC Sample # : L758284-04

Site ID : R23P079Q-

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.2		%	2540 G-2011	03/31/15	1
Antimony	BDL	2.4	mg/kg	6010B	04/12/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 13, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation
Sample ID : R23P079Q-PREXCSSB2-1FT
Collected By : Andrew Simmons
Collection Date : 03/27/15 15:29

ESC Sample # : L758284-05

Site ID : R23P079Q-

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.3		%	2540 G-2011	03/31/15	1
Antimony	BDL	2.5	mg/kg	6010B	04/12/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Andrew Simmons
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Golden, CO 80020

April 13, 2015

Date Received : March 28, 2015
Description : BB6RR 23 and 25E Soil Remediation
Sample ID : R23P079Q-PREXCSSA17-1FT
Collected By : Andrew Simmons
Collection Date : 03/27/15 15:48

ESC Sample # : L758284-06

Site ID : R23P079Q-

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.8		%	2540 G-2011	03/31/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/12/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L758284-01	WG781394	SAMP	Antimony	R3030253	J6

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

Report Summary

Wednesday April 29, 2015

Report Number: L761688

Samples Received: 04/27/15

Client Project: 1495001

Description: BBGRR 23 & 25E

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BI0041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSF4 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 08:45

ESC Sample # : L761688-01

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.7		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.4	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSE4 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 08:49

ESC Sample # : L761688-02

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.2		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

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Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSB3 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 08:52

ESC Sample # : L761688-03

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.8		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.4	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

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Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSF3 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 08:56

ESC Sample # : L761688-04

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.4		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

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Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSC16 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:00

ESC Sample # : L761688-05

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.0		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

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Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSD3 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:03

ESC Sample # : L761688-06

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.7		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.4	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSH3SV 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:07

ESC Sample # : L761688-07

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	83.1		%	2540 G-2011	04/29/15	1
Antimony	7.0	2.4	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSH3 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:12

ESC Sample # : L761688-08

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.9		%	2540 G-2011	04/29/15	1
Antimony	22.	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSB10 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:20

ESC Sample # : L761688-09

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.2		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSB17 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:25

ESC Sample # : L761688-10

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	78.0		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.6	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSF16 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:28

ESC Sample # : L761688-11

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.7		%	2540 G-2011	04/29/15	1
Antimony	3.8	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

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Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
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651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSE16 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:33

ESC Sample # : L761688-12

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.9		%	2540 G-2011	04/29/15	1
Antimony	44.	2.4	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSB16SV 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:36

ESC Sample # : L761688-13

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.7		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.2	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSE1 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:38

ESC Sample # : L761688-14

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.7		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.4	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSE10 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:44

ESC Sample # : L761688-15

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.4		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSF11 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:48

ESC Sample # : L761688-16

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.1		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSB21 6IN
Collected By : Andrew Simmons
Collection Date : 04/27/15 09:56

ESC Sample # : L761688-17

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.8		%	2540 G-2011	04/29/15	1
Antimony	27.	2.4	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSF17 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:02

ESC Sample # : L761688-18

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89.2		%	2540 G-2011	04/29/15	1
Antimony	2.7	2.2	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSD22 6IN
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:09

ESC Sample # : L761688-19

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.1		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSD23 6IN
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:13

ESC Sample # : L761688-20

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.0		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSCS 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:16

ESC Sample # : L761688-21

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	83.3		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.4	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSE18 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:20

ESC Sample # : L761688-22

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.8		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSF14 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:22

ESC Sample # : L761688-23

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	83.7		%	2540 G-2011	04/29/15	1
Antimony	19.	2.4	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

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Det. Limit - Practical Quantitation Limit(PQL)

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651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSB14 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:25

ESC Sample # : L761688-24

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.6		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.2	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

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Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSA20 6IN
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:28

ESC Sample # : L761688-25

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.0		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.2	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
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651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSE15 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:31

ESC Sample # : L761688-26

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.7		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.4	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSD15 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:35

ESC Sample # : L761688-27

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.9		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSB9 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:38

ESC Sample # : L761688-28

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.3		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSE8 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:41

ESC Sample # : L761688-29

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.6		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSA18 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:44

ESC Sample # : L761688-30

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.5		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSDUP 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:48

ESC Sample # : L761688-31

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.4		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSE18DUP 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:52

ESC Sample # : L761688-32

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.8		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSC1 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 10:58

ESC Sample # : L761688-33

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.5		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.3	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29, 2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSA15 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 11:03

ESC Sample # : L761688-34

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89.1		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.2	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

April 29,2015

Date Received : April 27, 2015
Description : BBGRR 23 & 25E
Sample ID : R23P079Q-PREXCSSA2 1FT
Collected By : Andrew Simmons
Collection Date : 04/27/15 11:07

ESC Sample # : L761688-35

Site ID :

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.3		%	2540 G-2011	04/29/15	1
Antimony	BDL	2.5	mg/kg	6010B	04/28/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L761688-01	WG785118	SAMP	Antimony	R3033631	J6

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

Report Summary

Friday May 01, 2015

Report Number: L761941

Samples Received: 04/29/15

Client Project: 1495001

Description: BBGRR 23&25E Soil Remediation

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BI0041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

May 01, 2015

Date Received : April 29, 2015
Description : BBGRR 23&25E Soil Remediation
Sample ID : R25EP223QA25-1FT
Collected By : Andrew Simmons
Collection Date : 04/28/15 13:21

ESC Sample # : L761941-01

Site ID : R25EP223Q

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	92.8		%	2540 G-2011	04/30/15	1
Mercury	BDL	0.022	mg/kg	7471A	04/30/15	1
Antimony	230	2.2	mg/kg	6010B	05/01/15	1
Arsenic	14.	2.2	mg/kg	6010B	05/01/15	1
Barium	36.	0.54	mg/kg	6010B	05/01/15	1
Cadmium	BDL	0.54	mg/kg	6010B	05/01/15	1
Chromium	7.5	1.1	mg/kg	6010B	05/01/15	1
Lead	15000	5.4	mg/kg	6010B	05/01/15	10
Selenium	BDL	2.2	mg/kg	6010B	05/01/15	1
Silver	BDL	1.1	mg/kg	6010B	05/01/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 05/01/15 13:10 Printed: 05/01/15 14:32

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L761941-01	WG785638	SAMP	Mercury	R3034022	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

Report Summary

Tuesday May 12, 2015

Report Number: L762848

Samples Received: 04/29/15

Client Project: 1495001

Description: BBGRR 23&25E Soil Remediation

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BI0041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Andrew Simmons
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

May 12, 2015

Date Received : April 29, 2015
Description : BBGRR 23&25E Soil Remediation
Sample ID : R25EP223QA25-1FT
Collected By : Andrew Simmons
Collection Date : 04/28/15 13:21

ESC Sample # : L762848-01

Site ID : R25EP223Q

Project # : 1495001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	92.8		%	2540 G-2011	04/30/15	1
Mercury	0.024	0.022	mg/kg	7471A	05/06/15	1
Antimony	3.1	2.2	mg/kg	6010B	05/11/15	1
Arsenic	BDL	2.2	mg/kg	6010B	05/11/15	1
Barium	28.	0.54	mg/kg	6010B	05/11/15	1
Cadmium	BDL	0.54	mg/kg	6010B	05/11/15	1
Chromium	3.9	1.1	mg/kg	6010B	05/11/15	1
Lead	450	0.54	mg/kg	6010B	05/11/15	1
Selenium	BDL	2.2	mg/kg	6010B	05/11/15	1
Silver	BDL	1.1	mg/kg	6010B	05/11/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 05/12/15 10:46 Printed: 05/12/15 10:46

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L762848-01	WG787253	SAMP	Lead	R3036268	VJ3
	WG787253	SAMP	Selenium	R3036268	J6

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Randy Mendonsa
Envirocon
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Report Summary

Monday December 21, 2015

Report Number: L806680

Samples Received: 12/14/15

Client Project: 1495001

Description: BBGRR 23, FT. McClellan

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Entire Report Reviewed By:

Shane Gambill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01,1461-02, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
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NC - ENV375/DW21704/BI0041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
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REPORT OF ANALYSIS

Randy Mendonsa
Envirocon
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

December 21, 2015

Date Received : December 14, 2015
Description : BBGRR 23, FT. McClellan

ESC Sample # : L806680-01

Sample ID : R23P079Q-PTF14-1FT

Site ID : GRID F14

Collected By : Randy Mendonsa
Collection Date : 12/11/15 14:09

Project : 1495001

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/17/15 1625	BG	1
Mercury	BDL	0.0100	mg/l	0.200	7470A	12/18/15 1526	TRB	1
Arsenic	BDL	0.450	mg/l	5.00	6010B	12/18/15 1524	LTB	1
Barium	BDL	1.35	mg/l	100.	6010B	12/18/15 1524	LTB	1
Cadmium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1524	LTB	1
Chromium	BDL	0.450	mg/l	5.00	6010B	12/18/15 1524	LTB	1
Lead	0.562	0.450	mg/l	5.00	6010B	12/18/15 1524	LTB	1
Selenium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1524	LTB	1
Silver	BDL	0.450	mg/l	5.00	6010B	12/18/15 1524	LTB	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

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Randy Mendonsa
Envirocon
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Report Summary

Monday December 21, 2015

Report Number: L807064

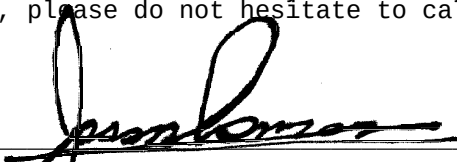
Samples Received: 12/16/15

Client Project: 1495001

Description: BBGRR 23, FT. McClellan

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Entire Report Reviewed By:


Jason Rorer , ESC Representative

Laboratory Certification Numbers

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SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

December 21, 2015

Randy Mendonsa
Envirocon
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Date Received : December 16, 2015
Description : BBGRR 23, FT. McClellan

Sample ID : R23P079Q-PTF16-1FT

Collected By : Randy Mendonsa
Collection Date : 12/15/15 09:00

ESC Sample # : L807064-01

Site ID : RANGE 23

Project : 1495001

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/17/15 1625	BG	1
Mercury	BDL	0.0100	mg/l	0.200	7470A	12/18/15 1540	TRB	1
Arsenic	BDL	0.450	mg/l	5.00	6010B	12/18/15 1558	LTB	1
Barium	BDL	1.35	mg/l	100.	6010B	12/18/15 1558	LTB	1
Cadmium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1558	LTB	1
Chromium	BDL	0.450	mg/l	5.00	6010B	12/18/15 1558	LTB	1
Lead	0.623	0.450	mg/l	5.00	6010B	12/18/15 1558	LTB	1
Selenium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1558	LTB	1
Silver	BDL	0.450	mg/l	5.00	6010B	12/18/15 1558	LTB	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

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REPORT OF ANALYSIS

December 21, 2015

Randy Mendonsa
Envirocon
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Date Received : December 16, 2015
Description : BBGRR 23, FT. McClellan

Sample ID : R23P079Q-PTF17-1FT

Collected By : Randy Mendonsa
Collection Date : 12/15/15 09:15

ESC Sample # : L807064-02

Site ID : RANGE 23

Project : 1495001

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/17/15 1625	BG	1
Mercury	BDL	0.0100	mg/l	0.200	7470A	12/18/15 1543	TRB	1
Arsenic	BDL	0.450	mg/l	5.00	6010B	12/18/15 1601	LTB	1
Barium	BDL	1.35	mg/l	100.	6010B	12/18/15 1601	LTB	1
Cadmium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1601	LTB	1
Chromium	BDL	0.450	mg/l	5.00	6010B	12/18/15 1601	LTB	1
Lead	BDL	0.450	mg/l	5.00	6010B	12/18/15 1601	LTB	1
Selenium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1601	LTB	1
Silver	BDL	0.450	mg/l	5.00	6010B	12/18/15 1601	LTB	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

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REPORT OF ANALYSIS

December 21, 2015

Randy Mendonsa
Envirocon
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Date Received : December 16, 2015
Description : BBGRR 23, FT. McClellan

Sample ID : R23P079Q-PTE17-1FT

Collected By : Randy Mendonsa
Collection Date : 12/15/15 13:00

ESC Sample # : L807064-03

Site ID : RANGE 23

Project : 1495001

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/17/15 1625	BG	1
Mercury	BDL	0.0100	mg/l	0.200	7470A	12/18/15 1559	TRB	1
Arsenic	BDL	0.450	mg/l	5.00	6010B	12/18/15 1604	LTB	1
Barium	BDL	1.35	mg/l	100.	6010B	12/18/15 1604	LTB	1
Cadmium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1604	LTB	1
Chromium	BDL	0.450	mg/l	5.00	6010B	12/18/15 1604	LTB	1
Lead	9.90	0.450	mg/l	5.00	6010B	12/18/15 1604	LTB	1
Selenium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1604	LTB	1
Silver	BDL	0.450	mg/l	5.00	6010B	12/18/15 1604	LTB	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

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Randy Mendonsa
Envirocon
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Report Summary

Monday December 21, 2015

Report Number: L807423

Samples Received: 12/17/15

Client Project: 1495001

Description: BBG-RR23 Ft McClellan

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Shane Gambill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01,1461-02, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
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REPORT OF ANALYSIS

Randy Mendonsa
Envirocon
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

December 21, 2015

Date Received : December 17, 2015
Description : BBG-RR23 Ft McClellan

ESC Sample # : L807423-01

Sample ID : R23 P0 79Q-PTE15

Site ID : RANGE 23

Collected By : Randy Mendonsa
Collection Date : 12/15/15 14:30

Project : 1495001

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/17/15 1836	LJN	1
Mercury	BDL	0.0100	mg/l	0.200	7470A	12/19/15 0953	TRB	1
Arsenic	BDL	0.450	mg/l	5.00	6010B	12/18/15 1751	WBD	1
Barium	BDL	1.35	mg/l	100.	6010B	12/18/15 1751	WBD	1
Cadmium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1751	WBD	1
Chromium	BDL	0.450	mg/l	5.00	6010B	12/18/15 1751	WBD	1
Lead	3.46	0.450	mg/l	5.00	6010B	12/18/15 1751	WBD	1
Selenium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1751	WBD	1
Silver	BDL	0.450	mg/l	5.00	6010B	12/18/15 1751	WBD	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

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REPORT OF ANALYSIS

Randy Mendonsa
Envirocon
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

December 21, 2015

Date Received : December 17, 2015
Description : BBG-RR23 Ft McClellan

ESC Sample # : L807423-02

Sample ID : R23 P0 79Q-PTF14-1FT

Site ID : RANGE 23

Collected By : Randy Mendonsa
Collection Date : 12/15/15 14:45

Project : 1495001

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/17/15 1836	LJN	1
Mercury	BDL	0.0100	mg/l	0.200	7470A	12/19/15 0956	TRB	1
Arsenic	BDL	0.450	mg/l	5.00	6010B	12/18/15 1754	WBD	1
Barium	BDL	1.35	mg/l	100.	6010B	12/18/15 1754	WBD	1
Cadmium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1754	WBD	1
Chromium	BDL	0.450	mg/l	5.00	6010B	12/18/15 1754	WBD	1
Lead	BDL	0.450	mg/l	5.00	6010B	12/18/15 1754	WBD	1
Selenium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1754	WBD	1
Silver	BDL	0.450	mg/l	5.00	6010B	12/18/15 1754	WBD	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

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Reported: 12/21/15 09:35 Printed: 12/21/15 09:35



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REPORT OF ANALYSIS

Randy Mendonsa
Envirocon
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

December 21, 2015

Date Received : December 17, 2015
Description : BBG-RR23 Ft McClellan

ESC Sample # : L807423-03

Sample ID : R23 P0 79Q-PTE13-1FT

Site ID : RANGE 23

Collected By : Randy Mendonsa
Collection Date : 12/15/15 15:00

Project : 1495001

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/17/15 1836	LJN	1
Mercury	BDL	0.0100	mg/l	0.200	7470A	12/19/15 0958	TRB	1
Arsenic	BDL	0.450	mg/l	5.00	6010B	12/18/15 1757	WBD	1
Barium	BDL	1.35	mg/l	100.	6010B	12/18/15 1757	WBD	1
Cadmium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1757	WBD	1
Chromium	BDL	0.450	mg/l	5.00	6010B	12/18/15 1757	WBD	1
Lead	1.32	0.450	mg/l	5.00	6010B	12/18/15 1757	WBD	1
Selenium	BDL	0.450	mg/l	1.00	6010B	12/18/15 1757	WBD	1
Silver	BDL	0.450	mg/l	5.00	6010B	12/18/15 1757	WBD	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.

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Randy Mendonsa
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

Report Summary

Wednesday December 23, 2015

Report Number: L808105

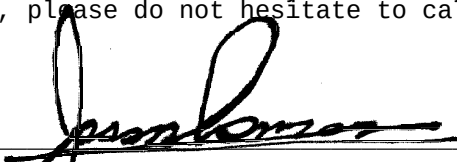
Samples Received: 12/19/15

Client Project: 1495001

Description: BBG RR23 Ft. McClellan

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jason Rorer, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, 1461-02, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BI0041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Randy Mendonsa
 Envirocon
 651 Corporate Circle Ste 114
 Golden, CO 80020

December 23, 2015

Date Received : December 19, 2015
 Description : BBG RR23 Ft. McClellan
 Sample ID : P23P079Q-PTE 20-6IN
 Collected By : Randy Mendonsa
 Collection Date : 12/18/15 09:45

ESC Sample # : L808105-01
 Site ID : RANGE 23
 Project : 1495001

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/21/15 1245	LJN	1
Mercury	BDL	0.0100	mg/l	0.200	7470A	12/22/15 1633	TRB	1
Arsenic	BDL	0.450	mg/l	5.00	6010B	12/22/15 1643	ST	1
Barium	BDL	1.35	mg/l	100.	6010B	12/22/15 1643	ST	1
Cadmium	BDL	0.450	mg/l	1.00	6010B	12/22/15 1643	ST	1
Chromium	BDL	0.450	mg/l	5.00	6010B	12/22/15 1643	ST	1
Lead	0.506	0.450	mg/l	5.00	6010B	12/22/15 1643	ST	1
Selenium	BDL	0.450	mg/l	1.00	6010B	12/22/15 1643	ST	1
Silver	BDL	0.450	mg/l	5.00	6010B	12/22/15 1643	ST	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

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REPORT OF ANALYSIS

December 23, 2015

Randy Mendonsa
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

ESC Sample # : L808105-02

Date Received : December 19, 2015
Description : BBG RR23 Ft. McClellan

Site ID : RANGE 23

Sample ID : P23P079Q-PTD 16-1FT

Project : 1495001

Collected By : Randy Mendonsa
Collection Date : 12/18/15 09:30

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/21/15 1245	LJN	1
Mercury	BDL	0.0100	mg/l	0.200	7470A	12/22/15 1636	TRB	1
Arsenic	BDL	0.450	mg/l	5.00	6010B	12/22/15 1646	ST	1
Barium	BDL	1.35	mg/l	100.	6010B	12/22/15 1646	ST	1
Cadmium	BDL	0.450	mg/l	1.00	6010B	12/22/15 1646	ST	1
Chromium	BDL	0.450	mg/l	5.00	6010B	12/22/15 1646	ST	1
Lead	3.66	0.450	mg/l	5.00	6010B	12/22/15 1646	ST	1
Selenium	BDL	0.450	mg/l	1.00	6010B	12/22/15 1646	ST	1
Silver	BDL	0.450	mg/l	5.00	6010B	12/22/15 1646	ST	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

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REPORT OF ANALYSIS

December 23, 2015

Randy Mendonsa
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

ESC Sample # : L808105-03

Date Received : December 19, 2015
Description : BBG RR23 Ft. McClellan

Site ID : RANGE 23

Sample ID : P23P079Q-PTF 22-6IN

Project : 1495001

Collected By : Randy Mendonsa
Collection Date : 12/18/15 10:00

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/21/15 1245	LJN	1
Mercury	BDL	0.0100	mg/l	0.200	7470A	12/22/15 1639	TRB	1
Arsenic	BDL	0.450	mg/l	5.00	6010B	12/22/15 1805	ST	1
Barium	BDL	1.35	mg/l	100.	6010B	12/22/15 1805	ST	1
Cadmium	BDL	0.450	mg/l	1.00	6010B	12/22/15 1805	ST	1
Chromium	BDL	0.450	mg/l	5.00	6010B	12/22/15 1805	ST	1
Lead	BDL	0.450	mg/l	5.00	6010B	12/22/15 1805	ST	1
Selenium	BDL	0.450	mg/l	1.00	6010B	12/22/15 1805	ST	1
Silver	BDL	0.450	mg/l	5.00	6010B	12/22/15 1805	ST	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

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REPORT OF ANALYSIS

Randy Mendonsa
Envirocon
651 Corporate Circle Ste 114
Golden, CO 80020

December 23, 2015

Date Received : December 19, 2015
Description : BBG RR23 Ft. McClellan

Sample ID : P23P079Q-PTB 21-6IN

Collected By : Randy Mendonsa
Collection Date : 12/18/15 02:00

ESC Sample # : L808105-04

Site ID : RANGE 23

Project : 1495001

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/21/15 1245	LJN	1
Mercury	BDL	0.0100	mg/l	0.200	7470A	12/22/15 1642	TRB	1
Arsenic	BDL	0.450	mg/l	5.00	6010B	12/22/15 1808	ST	1
Barium	BDL	1.35	mg/l	100.	6010B	12/22/15 1808	ST	1
Cadmium	BDL	0.450	mg/l	1.00	6010B	12/22/15 1808	ST	1
Chromium	BDL	0.450	mg/l	5.00	6010B	12/22/15 1808	ST	1
Lead	0.654	0.450	mg/l	5.00	6010B	12/22/15 1808	ST	1
Selenium	BDL	0.450	mg/l	1.00	6010B	12/22/15 1808	ST	1
Silver	BDL	0.450	mg/l	5.00	6010B	12/22/15 1808	ST	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 12/23/15 09:41 Printed: 12/23/15 09:41

Envirocon

Sample Delivery Group: L808668
Samples Received: 12/23/2015
Project Number: 1495001
Description: BBG RR23 Ft. McClellan
Site: RANGE 23
Report To: Randy Mendonsa
651 Corporate Circle Ste 114
Golden, CO 80020

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



¹ Cp: Cover Page	1	¹ Cp
² Tc: Table of Contents	2	² Tc
³ Ss: Sample Summary	3	
⁴ Cn: Case Narrative	4	³ Ss
⁵ Sr: Sample Results	5	⁴ Cn
R23P079Q-PTA1-1FT L808668-01	5	
R23P079Q-PTA3-1FT L808668-02	6	⁵ Sr
⁶ Qc: Quality Control Summary	7	
Mercury by Method 7470A	7	⁶ Qc
Metals (ICP) by Method 6010B	8	
⁷ Gl: Glossary of Terms	9	⁷ Gl
⁸ Al: Accreditations & Locations	10	⁸ Al
⁹ Sc: Chain of Custody	11	⁹ Sc



R23P079Q-PTA1-1FT L808668-01 Waste

Collected by
Randy MendonsaCollected date/time
12/21/15 14:40Received date/time
12/23/15 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG838270	1	12/24/15 14:13	12/25/15 13:54	TRB
Metals (ICP) by Method 6010B	WG838291	1	12/24/15 11:44	12/27/15 20:07	LTB
Preparation by Method 1311	WG838075	1	12/23/15 11:09	12/23/15 11:10	BG

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

R23P079Q-PTA3-1FT L808668-02 Waste

Collected by
Randy MendonsaCollected date/time
12/21/15 14:00Received date/time
12/23/15 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG838270	1	12/24/15 14:13	12/25/15 13:56	TRB
Metals (ICP) by Method 6010B	WG838291	1	12/24/15 11:44	12/27/15 20:10	LTB
Preparation by Method 1311	WG838075	1	12/23/15 11:09	12/23/15 11:10	BG



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		12/23/2015 11:09:07 AM	WG838075

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	12/25/2015 13:54	WG838270

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	12/27/2015 20:07	WG838291
Barium	ND		1.35	100	1	12/27/2015 20:07	WG838291
Cadmium	ND		0.450	1	1	12/27/2015 20:07	WG838291
Chromium	ND		0.450	5	1	12/27/2015 20:07	WG838291
Lead	ND		0.450	5	1	12/27/2015 20:07	WG838291
Selenium	ND		0.450	1	1	12/27/2015 20:07	WG838291
Silver	ND		0.450	5	1	12/27/2015 20:07	WG838291

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		12/23/2015 11:09:07 AM	WG838075

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	12/25/2015 13:56	WG838270

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	12/27/2015 20:10	WG838291
Barium	ND		1.35	100	1	12/27/2015 20:10	WG838291
Cadmium	ND		0.450	1	1	12/27/2015 20:10	WG838291
Chromium	ND		0.450	5	1	12/27/2015 20:10	WG838291
Lead	4.23		0.450	5	1	12/27/2015 20:10	WG838291
Selenium	ND		0.450	1	1	12/27/2015 20:10	WG838291
Silver	ND		0.450	5	1	12/27/2015 20:10	WG838291

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) 12/25/15 13:29

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Mercury	ND		0.0100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/25/15 13:32 • (LCSD) 12/25/15 13:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.0300	0.0282	0.0289	94	96	80-120			3	20

L808161-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/25/15 13:37 • (MS) 12/25/15 13:39 • (MSD) 12/25/15 13:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.0300	ND	0.0282	0.0281	94	94	1	75-125			0	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 12/27/15 19:32

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Arsenic	ND		0.450
Barium	ND		1.35
Cadmium	ND		0.450
Chromium	ND		0.450
Lead	ND		0.450
Selenium	ND		0.450
Silver	ND		0.450

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/27/15 19:34 • (LCSD) 12/27/15 19:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	9.00	9.50	9.52	106	106	80-120			0	20
Barium	9.00	9.13	9.17	101	102	80-120			0	20
Cadmium	9.00	9.50	9.52	106	106	80-120			0	20
Chromium	9.00	9.36	9.35	104	104	80-120			0	20
Lead	9.00	9.72	9.73	108	108	80-120			0	20
Selenium	9.00	9.64	9.72	107	108	80-120			1	20
Silver	9.00	9.39	9.43	104	105	80-120			0	20

L807924-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/27/15 19:40 • (MS) 12/27/15 19:46 • (MSD) 12/27/15 19:49

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	9.00	0.0218	9.75	9.83	108	109	1	75-125			1	20
Barium	9.00	0.362	9.38	9.41	100	100	1	75-125			0	20
Cadmium	9.00	0.0245	9.63	9.68	107	107	1	75-125			1	20
Chromium	9.00	0.0351	9.23	9.31	102	103	1	75-125			1	20
Lead	9.00	0.364	9.95	10.0	107	107	1	75-125			1	20
Selenium	9.00	0.0953	10.1	10.2	111	112	1	75-125			1	20
Silver	9.00	0.00347	9.45	9.49	105	105	1	75-125			0	20



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
-----------	-------------

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

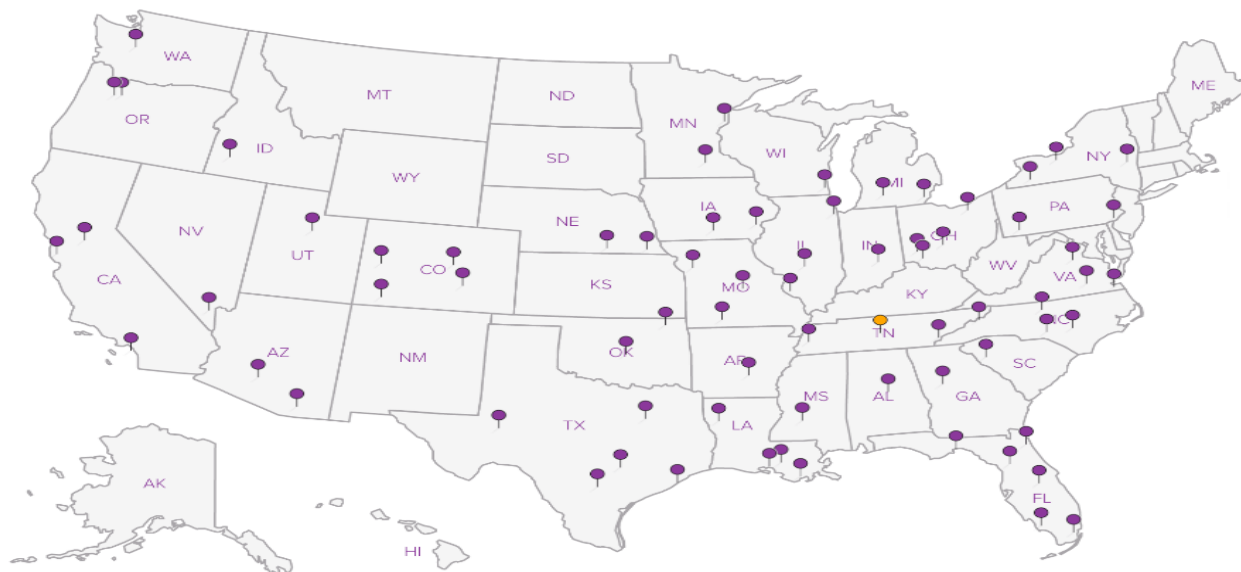
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address: Envirocon 101 INTERNATIONAL DRIVE MISSOULA, MT. 59808			Billing Information:			Analysis/Container/Preservative SW864 METHOD 311 PCRAS				Chain of Custody Page ____ of ____																																																												
Report to: Randy Mendonca			Email to: R.Mendonca@Envirocon.com			 ESC L.A.B S.C.I.E.N.C.E.S 12065 Lebanon Road Mt. Juliet, TN 37122 Phone: (800) 767-5859 Phone: (615) 758-5858 Fax: (615) 758-5859 B123				CoCode _____ (lab use only) Template/Prelogin _____ Shipped Via: _____																																																												
Project Description: BRG RR23 Ft. McClellan			City/State Collected: Anniston, AL																																																																			
Phone: 401-418-1700		Client Project #: 1495001		ESC Key:																																																																		
FAX:		Site/Facility ID#: Range 23		P.O.#: 216560																																																																		
Collected by (print): Randy Mendonca			Collected by (signature): Randy Mendonca									No. _____ of _____ Cntrs _____																																																										
Immediately Packed on Ice ☒ N ☐ Y			Rush? (Lab MUST Be Notified) ☐ Same Day.....200% ☐ Next Day.....100% ☐ Two Day.....50% ☒ Three Day.....25%			Date Results Needed: Email? ☐ No ☒ Yes FAX? ☐ No ☐ Yes																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Comp/Grab</th> <th>Matrix*</th> <th>Depth</th> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>P23PQ79Q-PTA1-1Ft.</td> <td>Comp</td> <td>SS</td> <td>1Ft.</td> <td>12:21:15</td> <td>2:40</td> </tr> <tr> <td>P23PQ79Q-PTA3-1Ft.</td> <td>Comp</td> <td>SS</td> <td>1Ft.</td> <td>12:22:15</td> <td>2:00</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	P23PQ79Q-PTA1-1Ft.	Comp	SS			1Ft.	12:21:15	2:40	P23PQ79Q-PTA3-1Ft.	Comp	SS	1Ft.	12:22:15	2:00																																																
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P23PQ79Q-PTA3-1Ft.	Comp	SS	1Ft.	12:22:15	2:00																																																																	

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date: 12/23/15	Time: 15:20	Received by: (Signature)	Samples returned via: ☒ UPS ☐ FedEx ☐ Courier	Condition: _____ (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 2-462
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/23/15	Time: 1000
				pH Checked:	NCF:

657352235630

Envirocon

Sample Delivery Group: L809548
Samples Received: 12/31/2015
Project Number: 1495001
Description: BBG RR23 Ft. McClellan

Report To: Liz Milodragovich
651 Corporate Circle Ste 114
Golden, CO 80020

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc



R23PO79Q-PT A5 1FT L809548-01 Waste

Collected by
Randy MendonsaCollected date/time
12/29/15 15:00Received date/time
12/31/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG839772	1	01/04/16 12:02	01/06/16 09:02	BRJ
Metals (ICP) by Method 6010B	WG839716	1	01/04/16 10:06	01/04/16 12:21	CCE
Preparation by Method 1311	WG839613	1	01/02/16 08:15	01/02/16 08:16	BG

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

R23PO79Q-PT B4 1FT L809548-02 Waste

Collected by
Randy MendonsaCollected date/time
12/29/15 15:30Received date/time
12/31/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG839772	1	01/04/16 12:02	01/06/16 09:05	BRJ
Metals (ICP) by Method 6010B	WG839716	1	01/04/16 10:06	01/04/16 12:52	CCE
Preparation by Method 1311	WG839613	1	01/02/16 08:15	01/02/16 08:16	BG



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/2/2016 8:15:38 AM	WG839613

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/06/2016 09:02	WG839772

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/04/2016 12:21	WG839716
Barium	ND		1.35	100	1	01/04/2016 12:21	WG839716
Cadmium	ND		0.450	1	1	01/04/2016 12:21	WG839716
Chromium	ND		0.450	5	1	01/04/2016 12:21	WG839716
Lead	0.505		0.450	5	1	01/04/2016 12:21	WG839716
Selenium	ND		0.450	1	1	01/04/2016 12:21	WG839716
Silver	ND		0.450	5	1	01/04/2016 12:21	WG839716

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Preparation by Method 1311

	Result	<u>Qualifier</u>	Prep date / time	<u>Batch</u>
Analyte				
TCLP Extraction	-		1/2/2016 8:15:38 AM	WG839613

Mercury by Method 7470A

	Result	<u>Qualifier</u>	RDL	Limit	Dilution	Analysis date / time	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l			
Mercury	ND		0.0100	0.20	1	01/06/2016 09:05	WG839772

Metals (ICP) by Method 6010B

	Result	<u>Qualifier</u>	RDL	Limit	Dilution	Analysis date / time	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l			
Arsenic	ND		0.450	5	1	01/04/2016 12:52	WG839716
Barium	ND		1.35	100	1	01/04/2016 12:52	WG839716
Cadmium	ND		0.450	1	1	01/04/2016 12:52	WG839716
Chromium	ND		0.450	5	1	01/04/2016 12:52	WG839716
Lead	ND		0.450	5	1	01/04/2016 12:52	WG839716
Selenium	ND		0.450	1	1	01/04/2016 12:52	WG839716
Silver	ND		0.450	5	1	01/04/2016 12:52	WG839716

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Method Blank (MB)

(MB) 01/06/16 08:44

	MB Result	MB Qualifier	MB RDL
Analyte	mg/l		mg/l
Mercury	ND		0.0100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/06/16 08:47 • (LCSD) 01/06/16 08:50

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.0300	0.0281	0.0293	94	98	80-120			4	20

L809607-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/06/16 08:52 • (MS) 01/06/16 08:55 • (MSD) 01/06/16 08:57

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.0300	ND	0.0297	0.0290	99	97	1	75-125			2	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 01/04/16 12:12

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Arsenic	ND		0.450
Barium	ND		1.35
Cadmium	ND		0.450
Chromium	ND		0.450
Lead	ND		0.450
Selenium	ND		0.450
Silver	ND		0.450

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/04/16 12:15 • (LCSD) 01/04/16 12:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	10.0	10.1	100	101	80-120			1	20
Barium	10.0	9.50	9.55	95	95	80-120			0	20
Cadmium	10.0	9.47	9.52	95	95	80-120			1	20
Chromium	10.0	9.35	9.44	94	94	80-120			1	20
Lead	10.0	9.23	9.25	92	93	80-120			0	20
Selenium	10.0	10.1	10.2	101	102	80-120			1	20
Silver	10.0	9.19	9.27	92	93	80-120			1	20

L809548-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/04/16 12:21 • (MS) 01/04/16 12:27 • (MSD) 01/04/16 12:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	0.0269	10.5	10.6	105	106	1	75-125			1	20
Barium	10.0	0.726	10.2	10.2	95	95	1	75-125			1	20
Cadmium	10.0	0.00114	9.73	9.79	97	98	1	75-125			1	20
Chromium	10.0	ND	9.45	9.46	94	95	1	75-125			0	20
Lead	10.0	0.505	9.92	9.96	94	95	1	75-125			0	20
Selenium	10.0	0.0875	10.8	10.8	107	107	1	75-125			1	20
Silver	10.0	ND	9.49	9.54	95	95	1	75-125			1	20



L809505-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/04/16 12:36 • (MS) 01/04/16 12:39 • (MSD) 01/04/16 12:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	10.0	6.38	17.9	17.8	115	114	1	75-125			1	20
Barium	10.0	0.223	9.48	9.48	93	93	1	75-125			0	20
Cadmium	10.0	0.0199	10.7	10.7	107	107	1	75-125			0	20
Chromium	10.0	0.0474	9.23	9.34	92	93	1	75-125			1	20
Lead	10.0	0.0113	9.50	9.53	95	95	1	75-125			0	20
Selenium	10.0	0.324	12.2	12.2	119	119	1	75-125			0	20
Silver	10.0	0.000994	11.0	11.0	110	110	1	75-125			0	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

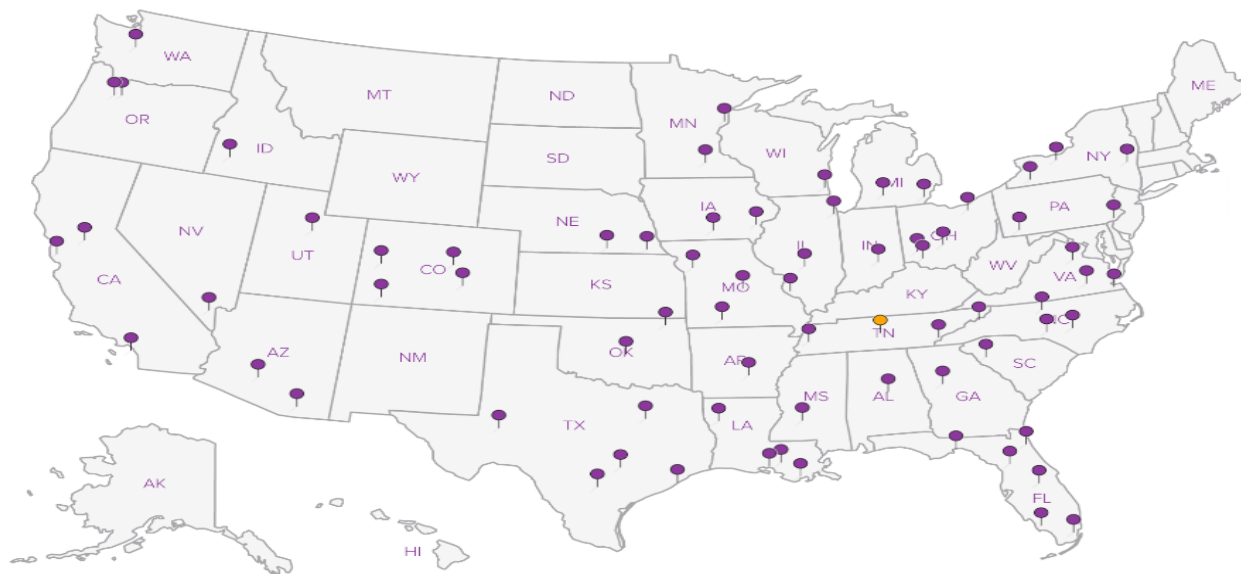
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Envirocon

Sample Delivery Group: L809843
Samples Received: 01/05/2016
Project Number: 1495001
Description: BBG RR23 Ft. McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

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¹Cp: Cover Page	1	¹Cp
²Tc: Table of Contents	2	²Tc
³Ss: Sample Summary	3	³Ss
⁴Cn: Case Narrative	4	⁴Cn
⁵Sr: Sample Results	5	⁵Sr
R23 P079Q-PTC4-1FT L809843-01	5	
R23 P079Q-PTH3-1FT L809843-02	6	
R23 P079Q-PTH4-1FT L809843-03	7	
R23 P079Q-PTE16-1FT L809843-04	8	
⁶Qc: Quality Control Summary	9	⁶Qc
Mercury by Method 7470A	9	⁷Gl
Metals (ICP) by Method 6010B	10	⁸Al
⁷Gl: Glossary of Terms	11	⁹Sc
⁸Al: Accreditations & Locations	12	
⁹Sc: Chain of Custody	13	



R23 P079Q-PTC4-1FT L809843-01 Waste

Collected by
Randy MendosaCollected date/time
12/31/15 13:30Received date/time
01/05/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG840384	1	01/07/16 17:38	01/08/16 09:33	RDS
Metals (ICP) by Method 6010B	WG840345	1	01/06/16 12:19	01/07/16 18:05	ST
Preparation by Method 1311	WG839709	1	01/05/16 10:46	01/05/16 10:46	BG

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

R23 P079Q-PTH3-1FT L809843-02 Waste

Collected by
Randy MendosaCollected date/time
12/31/15 15:00Received date/time
01/05/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG840384	1	01/07/16 17:38	01/08/16 09:35	RDS
Metals (ICP) by Method 6010B	WG840345	1	01/06/16 12:19	01/07/16 18:08	ST
Preparation by Method 1311	WG839709	1	01/05/16 10:46	01/05/16 10:46	BG

R23 P079Q-PTH4-1FT L809843-03 Waste

Collected by
Randy MendosaCollected date/time
12/31/15 15:30Received date/time
01/05/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG840384	1	01/07/16 17:38	01/08/16 09:38	RDS
Metals (ICP) by Method 6010B	WG840345	1	01/06/16 12:19	01/07/16 18:11	ST
Preparation by Method 1311	WG839709	1	01/05/16 10:46	01/05/16 10:46	BG

R23 P079Q-PTE16-1FT L809843-04 Waste

Collected by
Randy MendosaCollected date/time
01/04/16 13:30Received date/time
01/05/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG840384	1	01/07/16 17:38	01/08/16 09:40	RDS
Metals (ICP) by Method 6010B	WG840345	1	01/06/16 12:19	01/07/16 18:14	ST
Preparation by Method 1311	WG839709	1	01/05/16 10:46	01/05/16 10:46	BG



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/5/2016 10:46:30 AM	WG839709

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/08/2016 09:33	WG840384

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/07/2016 18:05	WG840345
Barium	ND		1.35	100	1	01/07/2016 18:05	WG840345
Cadmium	ND		0.450	1	1	01/07/2016 18:05	WG840345
Chromium	ND		0.450	5	1	01/07/2016 18:05	WG840345
Lead	0.779		0.450	5	1	01/07/2016 18:05	WG840345
Selenium	ND		0.450	1	1	01/07/2016 18:05	WG840345
Silver	ND		0.450	5	1	01/07/2016 18:05	WG840345

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/5/2016 10:46:30 AM	WG839709

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/08/2016 09:35	WG840384

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/07/2016 18:08	WG840345
Barium	ND		1.35	100	1	01/07/2016 18:08	WG840345
Cadmium	ND		0.450	1	1	01/07/2016 18:08	WG840345
Chromium	ND		0.450	5	1	01/07/2016 18:08	WG840345
Lead	3.02		0.450	5	1	01/07/2016 18:08	WG840345
Selenium	ND		0.450	1	1	01/07/2016 18:08	WG840345
Silver	ND		0.450	5	1	01/07/2016 18:08	WG840345

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/5/2016 10:46:30 AM	WG839709

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/08/2016 09:38	WG840384

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/07/2016 18:11	WG840345
Barium	ND		1.35	100	1	01/07/2016 18:11	WG840345
Cadmium	ND		0.450	1	1	01/07/2016 18:11	WG840345
Chromium	ND		0.450	5	1	01/07/2016 18:11	WG840345
Lead	5.26		0.450	5	1	01/07/2016 18:11	WG840345
Selenium	ND		0.450	1	1	01/07/2016 18:11	WG840345
Silver	ND		0.450	5	1	01/07/2016 18:11	WG840345

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/5/2016 10:46:31 AM	WG839709

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/08/2016 09:40	WG840384

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/07/2016 18:14	WG840345
Barium	ND		1.35	100	1	01/07/2016 18:14	WG840345
Cadmium	ND		0.450	1	1	01/07/2016 18:14	WG840345
Chromium	ND		0.450	5	1	01/07/2016 18:14	WG840345
Lead	0.533		0.450	5	1	01/07/2016 18:14	WG840345
Selenium	ND		0.450	1	1	01/07/2016 18:14	WG840345
Silver	ND		0.450	5	1	01/07/2016 18:14	WG840345

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Method Blank (MB)

(MB) 01/08/16 08:53

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB RDL mg/l
Mercury	ND		0.0100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/08/16 09:01 • (LCSD) 01/08/16 09:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.0300	0.0285	0.0283	95	94	80-120			1	20

L809822-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/08/16 09:06 • (MS) 01/08/16 09:08 • (MSD) 01/08/16 09:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.0300	ND	0.0292	0.0296	97	99	1	75-125			1	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 01/07/16 17:20

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Arsenic	ND		0.450
Barium	ND		1.35
Cadmium	ND		0.450
Chromium	ND		0.450
Lead	ND		0.450
Selenium	ND		0.450
Silver	ND		0.450

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/07/16 17:22 • (LCSD) 01/07/16 17:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	9.02	9.06	90	91	80-120			0	20
Barium	10.0	8.89	8.89	89	89	80-120			0	20
Cadmium	10.0	9.19	9.20	92	92	80-120			0	20
Chromium	10.0	8.90	8.88	89	89	80-120			0	20
Lead	10.0	9.19	9.18	92	92	80-120			0	20
Selenium	10.0	9.18	9.28	92	93	80-120			1	20
Silver	10.0	9.10	9.17	91	92	80-120			1	20

L809822-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/07/16 17:28 • (MS) 01/07/16 17:34 • (MSD) 01/07/16 17:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	0.0435	9.57	9.59	95	95	1	75-125			0	20
Barium	10.0	1.12	9.91	9.94	88	88	1	75-125			0	20
Cadmium	10.0	0.0304	9.61	9.66	96	96	1	75-125			0	20
Chromium	10.0	0.00352	9.00	9.04	90	90	1	75-125			0	20
Lead	10.0	0.245	9.66	9.69	94	94	1	75-125			0	20
Selenium	10.0	0.0314	9.83	9.87	98	98	1	75-125			0	20
Silver	10.0	0.00467	9.50	9.58	95	96	1	75-125			1	20



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

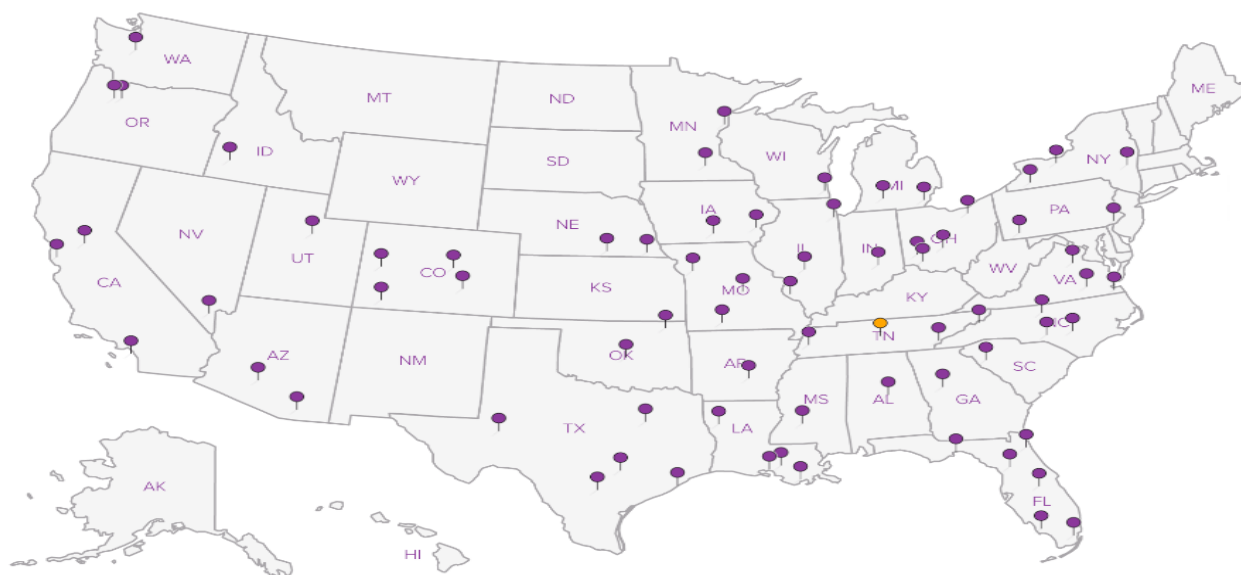
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



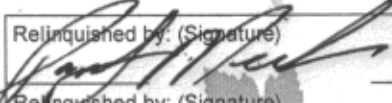
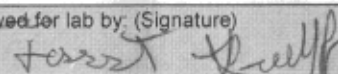
Company Name/Address: Envirocon 101 INTERNATIONAL DRIVE MISSOULA, MT. 59808			Billing Information: 			Analysis/Container/Preservative 			Chain of Custody Page ___ of ___  ESC L.A.B S.C.I.E.N.C.E.S 12065 Lebanon Road Mt. Juliet, TN 37122 Phone: (800) 767-5859 Phone: (615) 758-5858 Fax: (615) 758-5859		
Report to: Randy MENDOSA			Email to: RMENDOSA@Envirocon.com			SW 864 METHOD 1311 RCRA 8					
Project Description: B3G-PR23 Ft. McClellan			City/State Collected: Anniston, AL								
Phone: _____ FAX: 401-418-1700		Client Project #: 1495001		ESC Key: _____							
Collected by: (print) Randy MENDOSA		Site/Facility ID: RANGE23		P.O.#: 26560							
Collected by: (signature) Randy MENDOSA Immediately Packed on Ice ☒ N ☐ Y		Rush? (Lab MUST Be Notified) ☐ Same Day.....200% ☐ Next Day.....100% ☒ Two Day.....50% ☒ Three Day.....25%		Date Results Needed: Email? ☐ No ☒ Yes FAX? ☐ No ☐ Yes							
Sample ID			Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	CoCode _____ (lab use only) Template/Prelogin _____ Shipped Via: E066		
R23 P079Q-PTC4-1FT			Comp	SS	1FT.	12:31:05	13:30	1	Remarks/Contaminant		
R23 P079Q-PTH3-1FT			Comp	SS	1FT.	12:31:15	15:00	1	Sample # (lab only)		
R23 P079Q-PTH4-1FT			Comp	SS	1FT.	12:31:15	15:30	1	L8098V3-01		
R23 P079Q-PTE16-1FT			Comp	SS	1FT.	01:04:16	13:30	1	02 03 04		

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature) 		Date: 1/4/15	Time: 14:30	Received by: (Signature) 		Samples returned via: ☐ UPS ☒ FedEx ☐ Courier		Condition: _____ (lab use only)	
Relinquished by: (Signature) _____		Date: _____	Time: _____	Received by: (Signature) _____		Temp: ADLB	Bottles Received: 42402	CoC Seals Intact ☐ Y ☐ N ☐ NA	
Relinquished by: (Signature) _____		Date: _____	Time: _____	Received for lab by: (Signature) 		Date: 1/6/16	Time: 0400	pH Checked: _____	NCF: _____

Envirocon

Sample Delivery Group: L810475
Samples Received: 01/07/2016
Project Number: 1495001
Description: BBG RR23 Ft. McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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⁴Cn: Case Narrative	9
⁵Sr: Sample Results	10
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¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



⁸Al: Accreditations & Locations

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⁹Sc: Chain of Custody

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



R23PO79Q-PREXCSSB1-1 FT L810475-01 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 15:45	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 08:36	LTB
Total Solids by Method 2540 G-2011	WG840759	1	01/07/16 14:04	01/07/16 14:12	KDW

¹ Cp

² Tc

³ Ss

R23PO79Q-PREXCSSC1-1 FT L810475-02 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 15:48	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 08:51	LTB
Total Solids by Method 2540 G-2011	WG840759	1	01/07/16 14:04	01/07/16 14:12	KDW

⁴ Cn

⁵ Sr

⁶ Qc

R23PO79Q-PREXCSSD1-1 FT L810475-03 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 15:53	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 08:54	LTB
Total Solids by Method 2540 G-2011	WG840759	1	01/07/16 14:04	01/07/16 14:12	KDW

⁷ Gl

⁸ Al

⁹ Sc

R23PO79Q-PREXCSE1-1 FT L810475-04 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 15:55	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:03	LTB
Total Solids by Method 2540 G-2011	WG840759	1	01/07/16 14:04	01/07/16 14:12	KDW

R23PO79Q-PREXCSSF1-1 FT L810475-05 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 15:58	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:06	LTB
Total Solids by Method 2540 G-2011	WG840759	1	01/07/16 14:04	01/07/16 14:12	KDW

R23PO79Q-PREXCSSA2-1 FT L810475-06 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:00	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:10	LTB
Total Solids by Method 2540 G-2011	WG840759	1	01/07/16 14:04	01/07/16 14:12	KDW

R23PO79Q-PREXCSSC2-1 FT L810475-07 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:03	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:13	LTB
Total Solids by Method 2540 G-2011	WG840839	1	01/08/16 09:28	01/11/16 09:07	KDW



R23PO79Q-PREXCSSD2-1 FT L810475-08 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:06	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:16	LTB
Total Solids by Method 2540 G-2011	WG840839	1	01/08/16 09:28	01/11/16 09:07	KDW

¹ Cp² Tc³ Ss

R23PO79Q-PREXCSE2-1 FT L810475-09 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:08	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:19	LTB
Total Solids by Method 2540 G-2011	WG840839	1	01/08/16 09:28	01/11/16 09:07	KDW

⁴ Cn⁵ Sr⁶ Qc

R23PO79Q-PREXCSSF2-1 FT L810475-10 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:11	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:22	LTB
Total Solids by Method 2540 G-2011	WG840839	1	01/08/16 09:28	01/11/16 09:07	KDW

⁷ Gl⁸ Al⁹ Sc

R23PO79Q-PREXCSSB3-1 FT L810475-11 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:14	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:25	LTB
Total Solids by Method 2540 G-2011	WG840839	1	01/08/16 09:28	01/11/16 09:08	KDW

R23PO79Q-PREXCSSC3-1 FT L810475-12 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:16	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:28	LTB
Total Solids by Method 2540 G-2011	WG840839	1	01/08/16 09:28	01/11/16 09:08	KDW

R23PO79Q-PREXCSSD3-1 FT L810475-13 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:19	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:31	LTB
Total Solids by Method 2540 G-2011	WG840839	1	01/08/16 09:28	01/11/16 09:08	KDW

R23PO79Q-PREXCSE3-1 FT L810475-14 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:22	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:40	LTB
Total Solids by Method 2540 G-2011	WG840839	1	01/08/16 09:28	01/11/16 09:08	KDW



R23PO79Q-PREXCSSF3-1 FT L810475-15 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:25	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:43	LTB
Total Solids by Method 2540 G-2011	WG840839	1	01/08/16 09:28	01/11/16 09:08	KDW

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

R23PO79Q-PREXCSSG3-1 FT L810475-16 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:28	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:46	LTB
Total Solids by Method 2540 G-2011	WG840839	1	01/08/16 09:28	01/11/16 09:08	KDW

R23PO79Q-PREXCSSA4-1 FT L810475-17 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:31	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:49	LTB
Total Solids by Method 2540 G-2011	WG840840	1	01/08/16 09:08	01/11/16 09:02	KDW

R23PO79Q-PREXCSSD4-1 FT L810475-18 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:33	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:52	LTB
Total Solids by Method 2540 G-2011	WG840840	1	01/08/16 09:08	01/11/16 09:02	KDW

R23PO79Q-PREXCSSSE4-1 FT L810475-19 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:38	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:55	LTB
Total Solids by Method 2540 G-2011	WG840840	1	01/08/16 09:08	01/11/16 09:03	KDW

R23PO79Q-PREXCSSF4-1 FT L810475-20 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:41	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840760	1	01/08/16 10:47	01/11/16 09:58	LTB
Total Solids by Method 2540 G-2011	WG840840	1	01/08/16 09:08	01/11/16 09:03	KDW

R23PO79Q-PREXCSSG4-1 FT L810475-21 Solid

			Collected by Elizabeth M	Collected date/time 01/05/16 16:44	Received date/time 01/07/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840764	1	01/08/16 10:41	01/10/16 15:55	WBD
Total Solids by Method 2540 G-2011	WG840840	1	01/08/16 09:08	01/11/16 09:03	KDW



R23PO79Q-PREXCSSB5-1 FT L810475-22 Solid

Collected by
Elizabeth MCollected date/time
01/05/16 16:48Received date/time
01/07/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840764	1	01/08/16 10:41	01/10/16 16:46	WBD
Total Solids by Method 2540 G-2011	WG840840	1	01/08/16 09:08	01/11/16 09:03	KDW

¹ Cp² Tc³ Ss

R23PO79Q-PREXCSSC5-1 FT L810475-23 Solid

Collected by
Elizabeth MCollected date/time
01/05/16 16:50Received date/time
01/07/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840764	1	01/08/16 10:41	01/10/16 16:49	WBD
Total Solids by Method 2540 G-2011	WG840840	1	01/08/16 09:08	01/11/16 09:03	KDW

⁴ Cn⁵ Sr⁶ Qc

R23PO79Q-PREXCSSD5-1 FT L810475-24 Solid

Collected by
Elizabeth MCollected date/time
01/05/16 16:52Received date/time
01/07/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840764	1	01/08/16 10:41	01/10/16 17:11	WBD
Total Solids by Method 2540 G-2011	WG840840	1	01/08/16 09:08	01/11/16 09:04	KDW

⁷ Gl⁸ Al⁹ Sc

R23PO79Q-PREXCSSSE5-1 FT L810475-25 Solid

Collected by
Elizabeth MCollected date/time
01/05/16 16:55Received date/time
01/07/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840764	1	01/08/16 10:41	01/10/16 17:14	WBD
Total Solids by Method 2540 G-2011	WG840840	1	01/08/16 09:08	01/11/16 09:04	KDW

R23PO79Q-PREXCSSF5-1 FT L810475-26 Solid

Collected by
Elizabeth MCollected date/time
01/05/16 16:58Received date/time
01/07/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840764	1	01/08/16 10:41	01/10/16 17:17	WBD
Total Solids by Method 2540 G-2011	WG840840	1	01/08/16 09:08	01/11/16 09:04	KDW

R23PO79Q-PREXCSSG5-1 FT L810475-27 Solid

Collected by
Elizabeth MCollected date/time
01/05/16 17:01Received date/time
01/07/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840764	1	01/08/16 10:41	01/10/16 17:20	WBD
Total Solids by Method 2540 G-2011	WG840841	1	01/08/16 09:57	01/11/16 09:15	KDW

R23PO79Q-PREXCSSH5-1 FT L810475-28 Solid

Collected by
Elizabeth MCollected date/time
01/05/16 17:04Received date/time
01/07/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840764	1	01/08/16 10:41	01/10/16 17:24	WBD
Total Solids by Method 2540 G-2011	WG840841	1	01/08/16 09:57	01/11/16 09:15	KDW



R23PO79Q-PREXCSSH6-1 FT L810475-29 Solid

Collected by
Elizabeth MCollected date/time
01/05/16 17:07Received date/time
01/07/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840764	1	01/08/16 10:41	01/10/16 17:27	WBD
Total Solids by Method 2540 G-2011	WG840841	1	01/08/16 09:57	01/11/16 09:15	KDW

¹Cp²Tc³Ss

R23PO79Q-PREXCSSH3-1 FT L810475-30 Solid

Collected by
Elizabeth MCollected date/time
01/05/16 17:15Received date/time
01/07/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG840764	1	01/08/16 10:41	01/10/16 17:30	WBD
Total Solids by Method 2540 G-2011	WG840841	1	01/08/16 09:57	01/11/16 09:15	KDW

⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	01/07/2016 14:12	WG840759

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	2.91	J6	2.42	1	01/11/2016 08:36	WG840760
Lead	515	V	0.605	1	01/11/2016 08:36	WG840760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.0		1	01/07/2016 14:12	WG840759

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.33	1	01/11/2016 08:51	WG840760
Lead	143		0.582	1	01/11/2016 08:51	WG840760

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	01/07/2016 14:12	WG840759

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.29	1	01/11/2016 08:54	WG840760
Lead	32.3		0.572	1	01/11/2016 08:54	WG840760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	01/07/2016 14:12	WG840759

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.28	1	01/11/2016 09:03	WG840760
Lead	25.6		0.571	1	01/11/2016 09:03	WG840760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	01/07/2016 14:12	WG840759

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.28	1	01/11/2016 09:06	WG840760
Lead	70.5		0.569	1	01/11/2016 09:06	WG840760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	01/07/2016 14:12	WG840759

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	2.84		2.52	1	01/11/2016 09:10	WG840760
Lead	309		0.631	1	01/11/2016 09:10	WG840760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	01/11/2016 09:07	WG840839

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.34	1	01/11/2016 09:13	WG840760
Lead	168		0.584	1	01/11/2016 09:13	WG840760

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.1		1	01/11/2016 09:07	WG840839

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.24	1	01/11/2016 09:16	WG840760
Lead	34.2		0.561	1	01/11/2016 09:16	WG840760

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.0		1	01/11/2016 09:07	WG840839

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.32	1	01/11/2016 09:19	WG840760
Lead	20.1		0.581	1	01/11/2016 09:19	WG840760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	01/11/2016 09:07	WG840839

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.29	1	01/11/2016 09:22	WG840760
Lead	77.5		0.572	1	01/11/2016 09:22	WG840760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.7		1	01/11/2016 09:08	WG840839

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.36	1	01/11/2016 09:25	WG840760
Lead	320		0.590	1	01/11/2016 09:25	WG840760

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.9		1	01/11/2016 09:08	WG840839

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.25	1	01/11/2016 09:28	WG840760
Lead	68.2		0.562	1	01/11/2016 09:28	WG840760

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.0		1	01/11/2016 09:08	WG840839

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.32	1	01/11/2016 09:31	WG840760
Lead	207		0.581	1	01/11/2016 09:31	WG840760

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.0		1	01/11/2016 09:08	WG840839

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.33	1	01/11/2016 09:40	WG840760
Lead	53.8		0.582	1	01/11/2016 09:40	WG840760

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.2		1	01/11/2016 09:08	WG840839

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.29	1	01/11/2016 09:43	WG840760
Lead	21.0		0.573	1	01/11/2016 09:43	WG840760

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	01/11/2016 09:08	WG840839

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.52	1	01/11/2016 09:46	WG840760
Lead	48.0		0.630	1	01/11/2016 09:46	WG840760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.5		1	01/11/2016 09:02	WG840840

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.42	1	01/11/2016 09:49	WG840760
Lead	318		0.606	1	01/11/2016 09:49	WG840760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	01/11/2016 09:02	WG840840

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.34	1	01/11/2016 09:52	WG840760
Lead	51.9		0.584	1	01/11/2016 09:52	WG840760

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.2		1	01/11/2016 09:03	WG840840

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.27	1	01/11/2016 09:55	WG840760
Lead	134		0.567	1	01/11/2016 09:55	WG840760

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.8		1	01/11/2016 09:03	WG840840

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.39	1	01/11/2016 09:58	WG840760
Lead	88.1		0.597	1	01/11/2016 09:58	WG840760

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.9		1	01/11/2016 09:03	WG840840

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND	J6	2.41	1	01/10/2016 15:55	WG840764
Lead	51.2		0.603	1	01/10/2016 15:55	WG840764

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.2		1	01/11/2016 09:03	WG840840

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.38	1	01/10/2016 16:46	WG840764
Lead	284		0.594	1	01/10/2016 16:46	WG840764

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.9		1	01/11/2016 09:03	WG840840

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.36	1	01/10/2016 16:49	WG840764
Lead	255		0.589	1	01/10/2016 16:49	WG840764

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.5		1	01/11/2016 09:04	WG840840

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.34	1	01/10/2016 17:11	WG840764
Lead	104		0.585	1	01/10/2016 17:11	WG840764

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.1		1	01/11/2016 09:04	WG840840

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.35	1	01/10/2016 17:14	WG840764
Lead	22.5		0.588	1	01/10/2016 17:14	WG840764

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	01/11/2016 09:04	WG840840

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.31	1	01/10/2016 17:17	WG840764
Lead	42.9		0.578	1	01/10/2016 17:17	WG840764

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.2		1	01/11/2016 09:15	WG840841

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.35	1	01/10/2016 17:20	WG840764
Lead	61.6		0.587	1	01/10/2016 17:20	WG840764

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.9		1	01/11/2016 09:15	WG840841

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.33	1	01/10/2016 17:24	WG840764
Lead	79.7		0.582	1	01/10/2016 17:24	WG840764

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.3		1	01/11/2016 09:15	WG840841

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.35	1	01/10/2016 17:27	WG840764
Lead	107		0.586	1	01/10/2016 17:27	WG840764

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	01/11/2016 09:15	WG840841

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	10.1		2.28	1	01/10/2016 17:30	WG840764
Lead	1510		0.571	1	01/10/2016 17:30	WG840764

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Total Solids by Method 2540 G-2011

[L810475-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) 01/07/16 14:12

Analyte	MB Result	MB Qualifier	MB RDL
Total Solids	0.00130		

L810475-01 Original Sample (OS) • Duplicate (DUP)

(OS) 01/07/16 14:12 • (DUP) 01/07/16 14:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	82.6	84.3	1	1.96		5

Laboratory Control Sample (LCS)

(LCS) 01/07/16 14:12

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 01/11/16 09:07

	MB Result	<u>MB Qualifier</u>	MB RDL
Analyte	%		%
Total Solids	0.000900		

L810475-11 Original Sample (OS) • Duplicate (DUP)

(OS) 01/11/16 09:08 • (DUP) 01/11/16 09:08

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	84.7	83.4	1	1.50	5	

Laboratory Control Sample (LCS)

(LCS) 01/11/16 09:07

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 01/11/16 09:02

Analyte	MB Result %	MB Qualifier	MB RDL %
Total Solids	0.000800		

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L810475-21 Original Sample (OS) • Duplicate (DUP)

(OS) 01/11/16 09:03 • (DUP) 01/11/16 09:03

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	82.9	80.4	1	3.07		5

Laboratory Control Sample (LCS)

(LCS) 01/11/16 09:02

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) 01/11/16 09:14

Analyte	MB Result %	MB Qualifier	MB RDL %
Total Solids	0.00110		

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L810413-05 Original Sample (OS) • Duplicate (DUP)

(OS) 01/11/16 09:14 • (DUP) 01/11/16 09:14

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	77.3	75.8	1	1.99		5

Laboratory Control Sample (LCS)

(LCS) 01/11/16 09:14

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) 01/11/16 08:28

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Antimony	ND		2.00
Lead	ND		0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/11/16 08:30 • (LCSD) 01/11/16 08:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	102	106	102	106	80-120			5	20
Lead	100	96.9	101	97	101	80-120			5	20

L810475-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/11/16 08:36 • (MS) 01/11/16 08:45 • (MSD) 01/11/16 08:48

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	100	2.41	53.0	48.5	51	46	1	75-125	J6	J6	9	20
Lead	100	425	502	494	77	68	1	75-125		V	2	20



Method Blank (MB)

(MB) 01/10/16 15:46

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Antimony	ND		2.00
Lead	ND		0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/10/16 15:49 • (LCSD) 01/10/16 15:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	108	107	108	107	80-120			1	20
Lead	100	103	102	103	102	80-120			0	20

L810475-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/10/16 15:55 • (MS) 01/10/16 16:04 • (MSD) 01/10/16 16:07

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	100	0.262	58.3	64.0	58	64	1	75-125	J6	J6	9	20
Lead	100	42.5	157	159	115	116	1	75-125			1	20



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

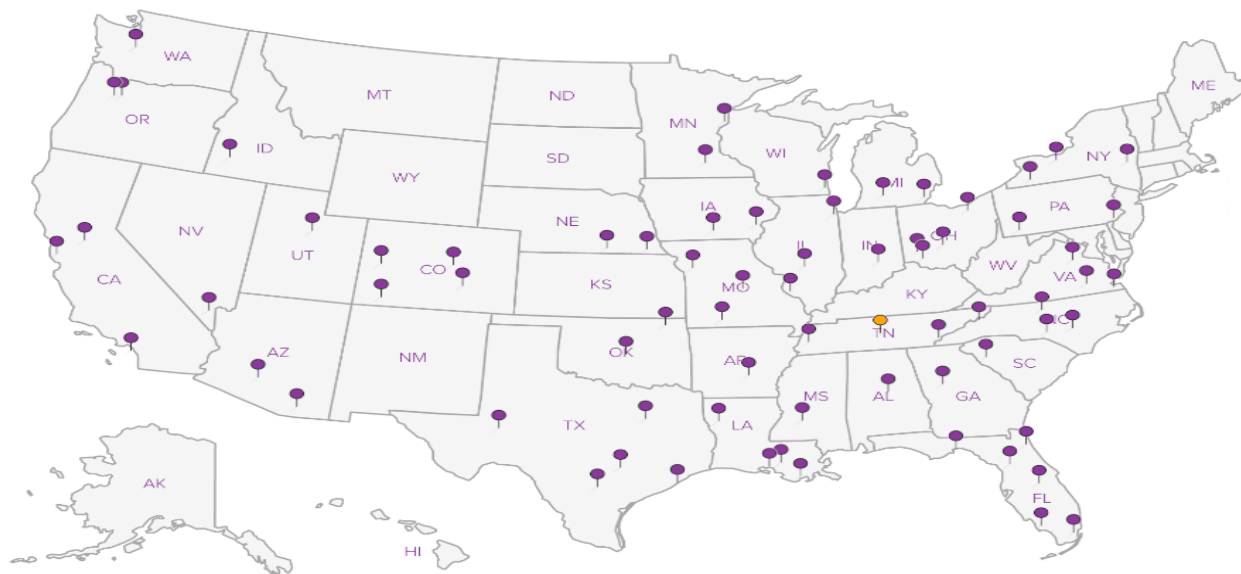
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Envirocon
101 International Dr
651 Corporate Circle Ste 114
Golden, CO 80020
Missoula, MT 59808

Billing Information:

Gene McNutt
651 Corporate Circle Ste 114
Golden, CO 80020

Analysis / Container / Preservative

Chain of Custody Page 1 of 3



YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to: Elizabeth Milodragovich Email To: Imilodragovich@envirocon.com

Project Description: BBG RR23 Ft. McClellan City/State Collected: Anniston, AL

Phone: 303-215-0107

Fax: 406-565-7576 Client Project # 1495001

Lab Project #

Collected by (print):

Elizabeth Milodragovich Range 23

Site/Facility ID #

P.O. #

216560

Collected by (signature):

Elizabeth Milodragovich

Rush? (Lab MUST Be Notified)

Same Day200%
Next Day100%
Two Day50%
Three Day25%

Date Results Needed

Email? No ☒ Yes
FAX? No ☐ Yes

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
R23P079Q-PREXCSSBI-1FT	grab	SS	1 FT	1/5/16	15:45	1
R23P079Q-PREXCSCI-1FT					15:48	1
R23P079Q-PREXCSDI-1FT					15:53	1
R23P079Q-PREXCSEI-1FT					15:55	1
R23P079Q-PREXCSSF1-1FT					15:58	1
R23P079Q-PREXCSSA2-1FT					16:00	1
R23P079Q-PREXCSSC2-1FT					16:03	1
R23P079Q-PREXCSSD2-1FT					16:06	1
R23P079Q-PREXCSS E2-1FT					16:08	1
R23P079Q-PREXCSSF2-1FT					16:11	1

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by: (Signature)

Elizabeth Milodragovich

Date:

1/6/15

Time:

12:50

Received by: (Signature)

[Signature]

Samples returned via: ☐ UPS

☒ FedEx ☐ Courier ☐ _____

Condition: (lab use only)

M4

Temp: °C Bottles Received:

77°F 302402

COC Seal Intact: Y N NA

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Forest [Signature]

Date:

1/7/16

Time:

0900

pH Checked:

NCF:

Envirocon

101 International Dr
651 Corporate Circle Ste 114
Golden, CO 80020

Missoula, MT 59808

Billing Information:

Gene McNutt
651 Corporate Circle Ste 114
Golden, CO 80020

Analysis / Container / Preservative

Chain of Custody Page 2 of 3



YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to:

Elizabeth Miledragovich

Email To:

lmiledragovich@envirocon.com

Project

Description: BB6RR23 Ft. McClellan

City/State

Collected: Anniston, AL

Phone: 303-215-0187

Fax: 406-565-7576

Client Project

1495001

Lab Project

Collected by (print):

Elizabeth Miledragovich Range 23

Site/Facility ID

P.O.

216560

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day200%
Next Day100%
Two Day50%
☒ Three Day25%

Date Results Needed

Email? ☐ No ☒ Yes

FAX? ☐ No ☐ Yes

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
R23P079Q-PREXCSSB3-1FT	6100	SS	1 FT	1/5/16	16:14	1
R23P079Q-PREXCSSC3-1FT					16:16	1
R23P079Q-PREXCSSD3-1FT					16:19	1
R23P079Q-PREXCSS E3-1FT					16:22	1
R23P079Q-PREXCSSF3-1FT					16:25	1
R23P079Q-PREXCSSG3-1FT					16:28	1
R23P079Q-PREXCSSA4-1FT					16:31	1
R23P079Q-PREXCSSH4-1FT					16:35	1
R23P079Q-PREXCSS E4-1FT					16:38	1
R23P079Q-PREXCSSF4-1FT					16:41	1

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by: (Signature)

[Signature]

Date:

1/6/15

Time:

12:50

Received by: (Signature)

[Signature]

Samples returned via:

☐ UPS

☒ FedEx ☐ Courier ☐ _____

Condition:

(lab use only)

Relinquished by: (Signature)

[Signature]

Date:

Time:

Received by: (Signature)

[Signature]

Temp:

°C

Bottles Received:

302902

COC Seal Intact:

Y N NA

Relinquished by: (Signature)

[Signature]

Date:

Time:

Received for lab by: (Signature)

[Signature]

Date:

1/7/16

Time:

0900

pH Checked:

NCF:

Envirocon

Sample Delivery Group: L811585
Samples Received: 01/13/2016
Project Number: 1495001
Description: BBGRR23 Ft. McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



¹ Cp: Cover Page	1
² Tc: Table of Contents	2
³ Ss: Sample Summary	3
⁴ Cn: Case Narrative	5
⁵ Sr: Sample Results	6
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R23P079Q-PTB19 1FT L811585-03	8
R25EP223Q-PTA25 1FT L811585-04	9
R23P079Q-PREXCSSA8 1FT L811585-05	10
R23P079Q-PREXCSSD22 6IN L811585-06	11
R23P079Q-PREXCSSD24 6IN L811585-07	12
R23P079Q-PREXCSSF10 1FT L811585-08	13
R23P079Q-PREXCSSF12 1FT L811585-09	14
R23P079Q-PREXCSSF15 1FT L811585-10	15
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⁶ Qc: Quality Control Summary	17
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⁷ Gl: Glossary of Terms	22
⁸ Al: Accreditations & Locations	23
⁹ Sc: Chain of Custody	24





R23P079Q-PTB17 1FT L811585-01 Waste

			Collected by Elizabeth M	Collected date/time 01/09/16 11:00	Received date/time 01/13/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG842626	1	01/15/16 11:45	01/16/16 09:14	TRB
Metals (ICP) by Method 6010B	WG842595	1	01/15/16 08:54	01/15/16 18:04	WBD
Preparation by Method 1311	WG842345	1	01/14/16 12:34	01/14/16 12:35	CHM

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

R23P079Q-PTB18 1FT L811585-02 Waste

			Collected by Elizabeth M	Collected date/time 01/09/16 10:45	Received date/time 01/13/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG842626	1	01/15/16 11:45	01/16/16 09:23	TRB
Metals (ICP) by Method 6010B	WG842595	1	01/15/16 08:54	01/15/16 18:07	WBD
Preparation by Method 1311	WG842345	1	01/14/16 12:34	01/14/16 12:35	CHM

R23P079Q-PTB19 1FT L811585-03 Waste

			Collected by Elizabeth M	Collected date/time 01/09/16 11:10	Received date/time 01/13/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG842626	1	01/15/16 11:45	01/16/16 09:25	TRB
Metals (ICP) by Method 6010B	WG842595	1	01/15/16 08:54	01/15/16 18:10	WBD
Preparation by Method 1311	WG842345	1	01/14/16 12:34	01/14/16 12:35	CHM

R25EP223Q-PTA25 1FT L811585-04 Waste

			Collected by Elizabeth M	Collected date/time 01/11/16 10:00	Received date/time 01/13/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG842626	1	01/15/16 11:45	01/16/16 09:28	TRB
Metals (ICP) by Method 6010B	WG842595	1	01/15/16 08:54	01/15/16 18:19	WBD
Preparation by Method 1311	WG842345	1	01/14/16 12:34	01/14/16 12:35	CHM

R23P079Q-PREXCSSA8 1FT L811585-05 Solid

			Collected by Elizabeth M	Collected date/time 01/12/16 13:35	Received date/time 01/13/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG842200	1	01/13/16 18:22	01/14/16 11:51	CCE
Total Solids by Method 2540 G-2011	WG841998	1	01/13/16 13:26	01/13/16 13:34	KDW

R23P079Q-PREXCSSD22 6IN L811585-06 Solid

			Collected by Elizabeth M	Collected date/time 01/12/16 13:34	Received date/time 01/13/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG842200	1	01/13/16 18:22	01/14/16 12:35	CCE
Total Solids by Method 2540 G-2011	WG842083	1	01/13/16 14:55	01/13/16 15:06	KDW

R23P079Q-PREXCSSD24 6IN L811585-07 Solid

			Collected by Elizabeth M	Collected date/time 01/12/16 13:45	Received date/time 01/13/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG842200	1	01/13/16 18:22	01/14/16 12:38	CCE
Total Solids by Method 2540 G-2011	WG842083	1	01/13/16 14:55	01/13/16 15:06	KDW



R23P079Q-PREXCSSF10 1FT L811585-08 Solid

Collected by
Elizabeth MCollected date/time
01/12/16 13:30Received date/time
01/13/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG842200	1	01/13/16 18:22	01/14/16 12:41	CCE
Total Solids by Method 2540 G-2011	WG842083	1	01/13/16 14:55	01/13/16 15:06	KDW

¹Cp²Tc³Ss

R23P079Q-PREXCSSF12 1FT L811585-09 Solid

Collected by
Elizabeth MCollected date/time
01/12/16 13:40Received date/time
01/13/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG842200	1	01/13/16 18:22	01/14/16 12:44	CCE
Total Solids by Method 2540 G-2011	WG842083	1	01/13/16 14:55	01/13/16 15:06	KDW

⁴Cn⁵Sr⁶Qc

R23P079Q-PREXCSSF15 1FT L811585-10 Solid

Collected by
Elizabeth MCollected date/time
01/12/16 13:31Received date/time
01/13/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG842200	1	01/13/16 18:22	01/14/16 12:47	CCE
Total Solids by Method 2540 G-2011	WG842083	1	01/13/16 14:55	01/13/16 15:06	KDW

⁷Gl⁸Al⁹Sc

R23P079Q-PREXCSSH3SV 1FT L811585-11 Solid

Collected by
Elizabeth MCollected date/time
01/12/16 13:28Received date/time
01/13/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG842200	1	01/13/16 18:22	01/14/16 12:49	CCE
Total Solids by Method 2540 G-2011	WG842083	1	01/13/16 14:55	01/13/16 15:06	KDW



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/14/2016 12:34:31 PM	WG842345

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/16/2016 09:14	WG842626

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/15/2016 18:04	WG842595
Barium	ND		1.35	100	1	01/15/2016 18:04	WG842595
Cadmium	ND		0.450	1	1	01/15/2016 18:04	WG842595
Chromium	ND		0.450	5	1	01/15/2016 18:04	WG842595
Lead	ND		0.450	5	1	01/15/2016 18:04	WG842595
Selenium	ND		0.450	1	1	01/15/2016 18:04	WG842595
Silver	ND		0.450	5	1	01/15/2016 18:04	WG842595

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/14/2016 12:34:31 PM	WG842345

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/16/2016 09:23	WG842626

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/15/2016 18:07	WG842595
Barium	ND		1.35	100	1	01/15/2016 18:07	WG842595
Cadmium	ND		0.450	1	1	01/15/2016 18:07	WG842595
Chromium	ND		0.450	5	1	01/15/2016 18:07	WG842595
Lead	1.31		0.450	5	1	01/15/2016 18:07	WG842595
Selenium	ND		0.450	1	1	01/15/2016 18:07	WG842595
Silver	ND		0.450	5	1	01/15/2016 18:07	WG842595

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/14/2016 12:34:31 PM	WG842345

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/16/2016 09:25	WG842626

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/15/2016 18:10	WG842595
Barium	ND		1.35	100	1	01/15/2016 18:10	WG842595
Cadmium	ND		0.450	1	1	01/15/2016 18:10	WG842595
Chromium	ND		0.450	5	1	01/15/2016 18:10	WG842595
Lead	3.42		0.450	5	1	01/15/2016 18:10	WG842595
Selenium	ND		0.450	1	1	01/15/2016 18:10	WG842595
Silver	ND		0.450	5	1	01/15/2016 18:10	WG842595

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/14/2016 12:34:31 PM	WG842345

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/16/2016 09:28	WG842626

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/15/2016 18:19	WG842595
Barium	ND		1.35	100	1	01/15/2016 18:19	WG842595
Cadmium	ND		0.450	1	1	01/15/2016 18:19	WG842595
Chromium	ND		0.450	5	1	01/15/2016 18:19	WG842595
Lead	13.4		0.450	5	1	01/15/2016 18:19	WG842595
Selenium	ND		0.450	1	1	01/15/2016 18:19	WG842595
Silver	ND		0.450	5	1	01/15/2016 18:19	WG842595

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.7		1	01/13/2016 13:34	WG841998

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	5.29	J6	2.36	1	01/14/2016 11:51	WG842200
Lead	749	V	0.590	1	01/14/2016 11:51	WG842200

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.8		1	01/13/2016 15:06	WG842083

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	2.37		2.18	1	01/14/2016 12:35	WG842200
Lead	414		0.545	1	01/14/2016 12:35	WG842200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.8		1	01/13/2016 15:06	WG842083

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.39	1	01/14/2016 12:38	WG842200
Lead	138		0.597	1	01/14/2016 12:38	WG842200

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.1		1	01/13/2016 15:06	WG842083

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	3.72		2.27	1	01/14/2016 12:41	WG842200
Lead	412		0.567	1	01/14/2016 12:41	WG842200

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.4		1	01/13/2016 15:06	WG842083

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.24	1	01/14/2016 12:44	WG842200
Lead	179		0.559	1	01/14/2016 12:44	WG842200

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.4		1	01/13/2016 15:06	WG842083

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.31	1	01/14/2016 12:47	WG842200
Lead	144		0.579	1	01/14/2016 12:47	WG842200

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	01/13/2016 15:06	WG842083

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	6.57		2.29	1	01/14/2016 12:49	WG842200
Lead	565		0.571	1	01/14/2016 12:49	WG842200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

[L811585-05](#)

Method Blank (MB)

(MB) 01/13/16 13:34

Analyte	MB Result %	<u>MB Qualifier</u>	MB RDL %
Total Solids	0.000700		

L811595-07 Original Sample (OS) • Duplicate (DUP)

(OS) 01/13/16 13:34 • (DUP) 01/13/16 13:34

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Total Solids	76.4	76.5	1	0.0772		5

Laboratory Control Sample (LCS)

(LCS) 01/13/16 13:34

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	99.9	85.0-115	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Total Solids by Method 2540 G-2011

[L811585-06,07,08,09,10,11](#)

Method Blank (MB)

(MB) 01/13/16 15:06

Analyte	MB Result	MB Qualifier	MB RDL
	%		%
Total Solids	0.00140		

L811595-04 Original Sample (OS) • Duplicate (DUP)

(OS) 01/13/16 15:06 • (DUP) 01/13/16 15:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	81.3	82.8	1	1.86		5

Laboratory Control Sample (LCS)

(LCS) 01/13/16 15:06

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 01/16/16 09:05

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Mercury	ND		0.0100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/16/16 09:08 • (LCSD) 01/16/16 09:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.0300	0.0313	0.0344	104	115	80-120			9	20

L811585-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/16/16 09:14 • (MS) 01/16/16 09:17 • (MSD) 01/16/16 09:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.0300	ND	0.0326	0.0286	109	95	1	75-125			13	20

Method Blank (MB)

(MB) 01/14/16 11:43

	MB Result	MB Qualifier	MB RDL
Analyte	mg/kg		mg/kg
Antimony	ND		2.00
Lead	ND		0.500

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/14/16 11:46 • (LCSD) 01/14/16 11:48

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Antimony	100	102	103	102	103	80-120			1	20
Lead	100	101	103	101	103	80-120			2	20

L811585-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/14/16 11:51 • (MS) 01/14/16 12:00 • (MSD) 01/14/16 12:03

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Antimony	100	4.48	56.9	60.4	52	56	1	75-125	J6	J6	6	20
Lead	100	634	837	784	202	149	1	75-125	V	V	7	20

Method Blank (MB)

(MB) 01/15/16 17:43

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Arsenic	ND		0.450
Barium	ND		1.35
Cadmium	ND		0.450
Chromium	ND		0.450
Lead	ND		0.450
Selenium	ND		0.450
Silver	ND		0.450

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/15/16 17:46 • (LCSD) 01/15/16 17:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	8.99	9.01	90	90	80-120			0	20
Barium	10.0	9.04	9.01	90	90	80-120			0	20
Cadmium	10.0	9.15	9.12	92	91	80-120			0	20
Chromium	10.0	8.87	8.79	89	88	80-120			1	20
Lead	10.0	8.99	8.94	90	89	80-120			1	20
Selenium	10.0	9.02	9.04	90	90	80-120			0	20
Silver	10.0	8.91	8.82	89	88	80-120			1	20

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L811899-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/15/16 17:52 • (MS) 01/15/16 17:58 • (MSD) 01/15/16 18:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	0.0124	9.42	9.46	94	94	1	75-125			0	20
Barium	10.0	1.01	9.82	9.82	88	88	1	75-125			0	20
Cadmium	10.0	0.00308	9.39	9.40	94	94	1	75-125			0	20
Chromium	10.0	0.0000333	8.76	8.73	88	87	1	75-125			0	20
Lead	10.0	0.0213	9.04	9.06	90	90	1	75-125			0	20
Selenium	10.0	0.0332	9.59	9.57	96	95	1	75-125			0	20
Silver	10.0	0.00210	9.22	9.18	92	92	1	75-125			0	20



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

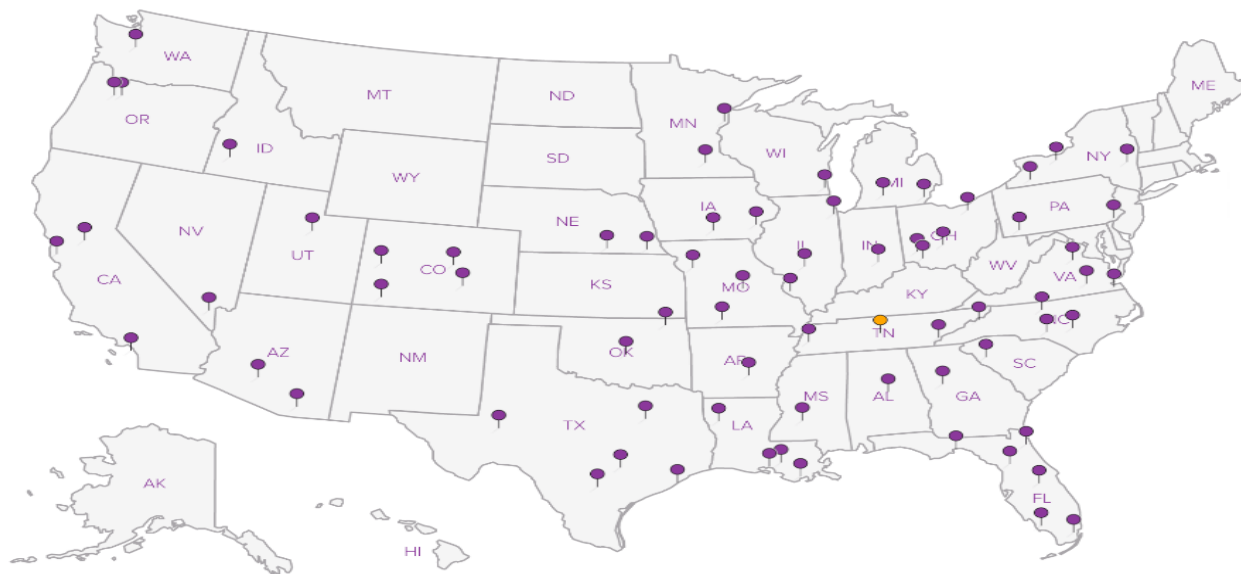
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Envirocon
101 International Dr
651 Corporate Circle Ste 114
Golden, CO 80020
Missoula, MT 59808

Billing Information:

Gene McNutt
651 Corporate Circle Ste 114
Golden, CO 80020

Report to:

Elizabeth Miledragovich

Email To:

lmiledragovich@envirocon.com

Project

Description: BBGRR23 Ft. McClellan

City/State

Collected: Anniston, AL

Phone: 303-215-0187

Fax: 406-565-7576 1495001

Client Project

Lab Project

Collected by (print):

Elizabeth Miledragovich Range Z3

Site/Facility ID

P.O.

ENVIRON6CO-1210145

Collected by (signature):



Rush? (Lab MUST Be Notified)

Same Day200%
Next Day100%
Two Day50%
Three Day25%

Date Results Needed

Email? ☐ No ☒ YesFAX? ☐ No ☐ YesImmediately
Packed on Ice N ☒ Y ☐No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	SWB64	Method 1311 RCRA8	6010B-P6, Sb	Analysis / Container / Preservative	Chain of Custody
R23P079Q-PTB17-1FT	Comp	SS	1 FT	1/9/16	11:00	1	X				
R23P079Q-PTB18-1FT					10:45	1	X				
R23P079Q-PTB19-1FT					11:10	1	X				
R2SEP223Q-PTA25-1FT				1/11/16	10:00	1	X				
R23P079Q-PREXCSSA8-1FT	Grab		1 FT	1/12/16	13:35	1		X			
R23P079Q-PREXCSSD22-6IN			6 in		13:34	1		X			
R23P079Q-PREXCSSD24-6IN			6 in		13:45	1		X			
R23P079Q-PREXCSSF10-1FT			1 FT		13:30	1		X			
R23P079Q-PREXCSSF12-1FT			1 FT		13:40	1		X			
R23P079Q-PREXCSSF15-1FT			1 FT		13:31	1		X			

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

157352235137

Hold #

Relinquished by: (Signature)



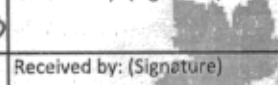
Date:

1/12/16

Time:

14:30

Received by: (Signature)

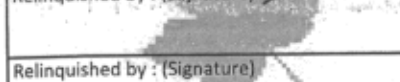
Samples returned via: ☐ UPS☒ FedEx ☐ Courier ☐ Other

Condition:

(lab use only)

0810 

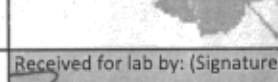
Relinquished by: (Signature)



Date:

Time:

Received by: (Signature)

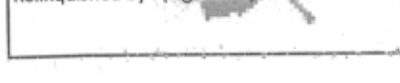


Temp: _____ °C Bottles Received:

2.9 11=40

COC Seal Intact: ☐ Y ☐ N ☒ NA

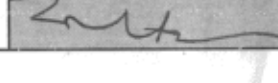
Relinquished by: (Signature)



Date:

Time:

Received for lab by: (Signature)



Date:

1/18/16 0900

pH Checked:

NCF:

Envirocon

Sample Delivery Group: L812191
Samples Received: 01/15/2016
Project Number: 1495001
Description: BBGRR23 Ft McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



¹ Cp: Cover Page	1	¹ Cp
² Tc: Table of Contents	2	² Tc
³ Ss: Sample Summary	3	
⁴ Cn: Case Narrative	4	³ Ss
⁵ Sr: Sample Results	5	⁴ Cn
R23P079Q-PTB1-1FT L812191-01	5	
⁶ Qc: Quality Control Summary	6	⁵ Sr
Total Solids by Method 2540 G-2011	6	
Metals (ICP) by Method 6010B	7	⁶ Qc
⁷ Gl: Glossary of Terms	9	⁷ Gl
⁸ Al: Accreditations & Locations	10	
⁹ Sc: Chain of Custody	11	⁸ Al
		⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



R23P079Q-PTB1-1FT L812191-01 Solid

Collected by
Elizabeth M

Collected date/time
01/14/16 09:50

Received date/time
01/15/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG842680	1	01/15/16 15:45	01/16/16 15:57	WBD
Metals (ICP) by Method 6010B	WG842680	1	01/15/16 15:45	01/17/16 13:10	WBD
Total Solids by Method 2540 G-2011	WG842678	1	01/15/16 13:27	01/16/16 09:25	MEL

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

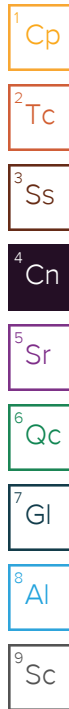
⁸Al

⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.3		1	01/16/2016 09:25	WG842678

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.37	1	01/17/2016 13:10	WG842680
Lead	196	J6	0.593	1	01/16/2016 15:57	WG842680

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

[L812191-01](#)

Method Blank (MB)

(MB) 01/16/16 09:24

Analyte	MB Result	MB Qualifier	MB RDL
Total Solids	0.000300		

L812199-07 Original Sample (OS) • Duplicate (DUP)

(OS) 01/16/16 09:26 • (DUP) 01/16/16 09:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	80.6	79.9	1	0.858		5

Laboratory Control Sample (LCS)

(LCS) 01/16/16 09:24

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) 01/16/16 15:49

	MB Result	MB Qualifier	MB RDL
Analyte	mg/kg		mg/kg
Lead	ND		0.500

Method Blank (MB)

(MB) 01/17/16 13:02

	MB Result	MB Qualifier	MB RDL
Analyte	mg/kg		mg/kg
Antimony	ND		2.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/16/16 15:51 • (LCSD) 01/16/16 15:54

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Lead	100	100	98.6	100	99	80-120			2	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/17/16 13:05 • (LCSD) 01/17/16 13:07

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Antimony	100	105	103	105	103	80-120			1	20

L812191-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/16/16 15:57 • (MS) 01/16/16 16:06 • (MSD) 01/16/16 16:09

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Lead	100	165	253	238	88	72	1	75-125		J6	6	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L812191-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/17/16 13:10 • (MS) 01/17/16 13:19 • (MSD) 01/17/16 13:22

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	100	0.700	80.8	71.8	80	71	1	75-125		J6	12	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

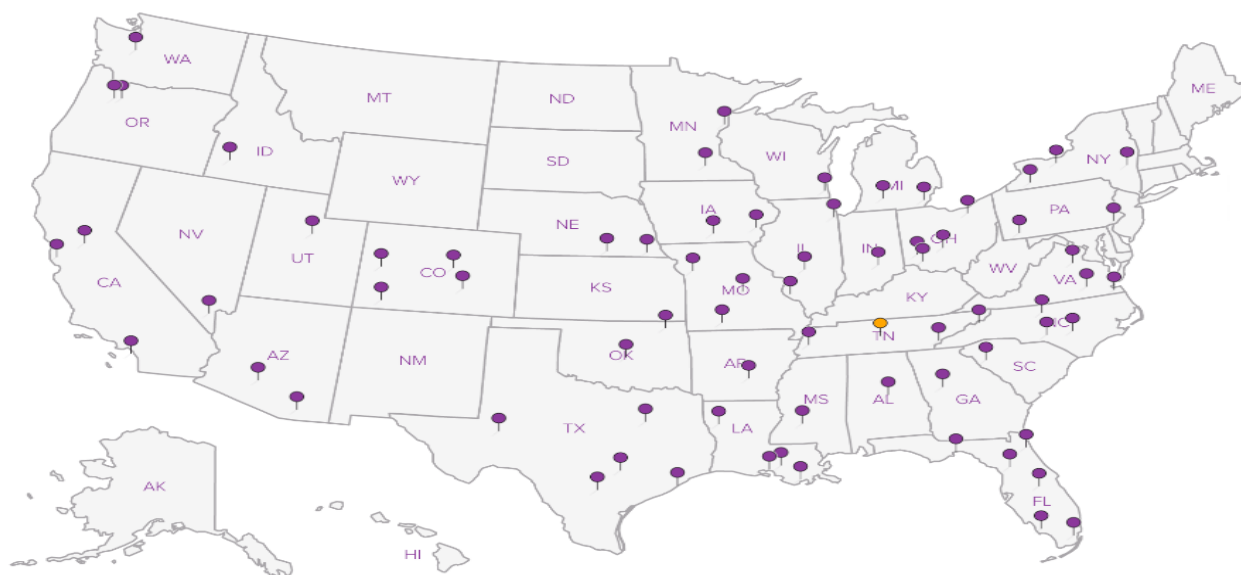
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Envirocon
101 International Dr
651 Corporate Circle Ste 114
Golden, CO 80020
Missoula, MT 59808

Billing Information:

Gene McNutt
651 Corporate Circle Ste 114
Golden, CO 80020

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to:
Elizabeth Miledragovich

Email To:
lmiledragovich@envirocon.com

Project
Description: BBGRR23 Ft McClellan

City/State
Collected: Anniston, AL

Phone: 303-215-0187

Fax: 406-565-7576 1495001

Client Project #

Lab Project #

Collected by (print):

Site/Facility ID #

P.O. #

Elizabeth Miledragovich Range 23

ENVIRONGCO-1210145

Collected by (signature):

Rush? (Lab MUST Be Notified)

Date Results Needed

Same Day200%
Next Day100%
Two Day50%
Three Day25%
Immediately
Packed on Ice N ☒ Y

Email? ☐ No ☒ Yes
FAX? ☐ No ☐ Yes

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
R23P1AQ-PTBI-1FT Comp SS			1FT	1/14/16	0950	1

X

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH Temp

Flow Other

6573 5223 5148

Bold #

Condition: (lab use only) GOW

OK

COC Seal Intact: ☐ Y ☐ N ☒ NA

pH Checked: NCF:

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Samples returned via: ☐ UPS

☐ FedEx ☐ Courier ☐

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

Amb 2 = 402

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 1/15/16 Time: 90

Envirocon

Sample Delivery Group: L813066
Samples Received: 01/21/2016
Project Number: 1495001
Description: BBGRR23 Ft McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

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¹Cp: Cover Page	1	¹Cp
²Tc: Table of Contents	2	²Tc
³Ss: Sample Summary	3	³Ss
⁴Cn: Case Narrative	4	⁴Cn
⁵Sr: Sample Results	5	⁵Sr
R23P079Q-TVE17-1FT L813066-01	5	
R23P079Q-TVH4-1FT L813066-02	6	
⁶Qc: Quality Control Summary	7	⁶Qc
Mercury by Method 7470A	7	
Metals (ICP) by Method 6010B	8	
⁷Gl: Glossary of Terms	10	⁷Gl
⁸Al: Accreditations & Locations	11	⁸Al
⁹Sc: Chain of Custody	12	⁹Sc



R23P079Q-TVE17-1FT L813066-01 Waste

Collected by
Elizabeth MCollected date/time
01/20/16 11:30Received date/time
01/21/16 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG844511	1	01/26/16 07:54	01/26/16 12:30	BRJ
Metals (ICP) by Method 6010B	WG844474	1	01/25/16 23:06	01/26/16 01:36	CCE
Preparation by Method 1311	WG844236	1	01/25/16 05:33	01/25/16 05:34	CHM

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

R23P079Q-TVH4-1FT L813066-02 Waste

Collected by
Elizabeth MCollected date/time
01/20/16 12:00Received date/time
01/21/16 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG844511	1	01/26/16 07:54	01/26/16 12:46	BRJ
Metals (ICP) by Method 6010B	WG844474	1	01/25/16 23:06	01/26/16 01:40	CCE
Preparation by Method 1311	WG844236	1	01/25/16 05:33	01/25/16 05:34	CHM



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	9.47		1/25/2016 5:33:10 AM	WG844236

¹ Cp² Tc

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/26/2016 12:30	WG844511

³ Ss⁴ Cn

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/26/2016 01:36	WG844474
Barium	ND		1.35	100	1	01/26/2016 01:36	WG844474
Cadmium	ND		0.450	1	1	01/26/2016 01:36	WG844474
Chromium	ND		0.450	5	1	01/26/2016 01:36	WG844474
Lead	ND		0.450	5	1	01/26/2016 01:36	WG844474
Selenium	ND		0.450	1	1	01/26/2016 01:36	WG844474
Silver	ND		0.450	5	1	01/26/2016 01:36	WG844474

⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	9.71		1/25/2016 5:33:10 AM	WG844236

¹ Cp² Tc

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/26/2016 12:46	WG844511

³ Ss⁴ Cn

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/26/2016 01:40	WG844474
Barium	ND		1.35	100	1	01/26/2016 01:40	WG844474
Cadmium	ND		0.450	1	1	01/26/2016 01:40	WG844474
Chromium	ND		0.450	5	1	01/26/2016 01:40	WG844474
Lead	ND		0.450	5	1	01/26/2016 01:40	WG844474
Selenium	ND		0.450	1	1	01/26/2016 01:40	WG844474
Silver	ND		0.450	5	1	01/26/2016 01:40	WG844474

⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Method Blank (MB)

(MB) 01/26/16 12:23

	MB Result	MB Qualifier	MB RDL
Analyte	mg/l		mg/l
Mercury	ND		0.0100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/26/16 12:25 • (LCSD) 01/26/16 12:28

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.0300	0.0269	0.0275	90	92	80-120			2	20

L813066-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/26/16 12:30 • (MS) 01/26/16 12:33 • (MSD) 01/26/16 12:35

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.0300	ND	0.0287	0.0306	96	102	1	75-125			6	20

L813235-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/26/16 12:38 • (MS) 01/26/16 12:41 • (MSD) 01/26/16 12:43

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.0300	ND	0.0293	0.0291	98	97	1	75-125			1	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 01/26/16 00:57

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Arsenic	ND		0.450
Barium	ND		1.35
Cadmium	ND		0.450
Chromium	ND		0.450
Lead	ND		0.450
Selenium	ND		0.450
Silver	ND		0.450

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/26/16 01:00 • (LCSD) 01/26/16 01:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	9.49	9.48	95	95	80-120			0	20
Barium	10.0	9.35	9.37	93	94	80-120			0	20
Cadmium	10.0	9.28	9.30	93	93	80-120			0	20
Chromium	10.0	9.48	9.54	95	95	80-120			1	20
Lead	10.0	9.18	9.22	92	92	80-120			1	20
Selenium	10.0	9.49	9.55	95	96	80-120			1	20
Silver	10.0	9.16	9.16	92	92	80-120			0	20

L813047-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/26/16 01:06 • (MS) 01/26/16 01:12 • (MSD) 01/26/16 01:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	0.0587	9.92	10.0	99	99	1	75-125			1	20
Barium	10.0	0.359	9.58	9.61	92	92	1	75-125			0	20
Cadmium	10.0	0.0817	9.62	9.65	95	96	1	75-125			0	20
Chromium	10.0	0.344	9.85	9.86	95	95	1	75-125			0	20
Lead	10.0	1.26	10.7	10.7	94	94	1	75-125			0	20
Selenium	10.0	ND	10.1	10.2	101	102	1	75-125			1	20
Silver	10.0	ND	9.36	9.41	94	94	1	75-125			1	20

L813235-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/26/16 01:43 • (MS) 01/26/16 01:45 • (MSD) 01/26/16 01:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	0.0105	9.45	9.57	94	96	1	75-125			1	20
Barium	10.0	0.0523	9.22	9.37	92	93	1	75-125			2	20
Cadmium	10.0	ND	9.17	9.32	92	93	1	75-125			2	20
Chromium	10.0	0.107	9.46	9.62	94	95	1	75-125			2	20
Lead	10.0	0.0135	9.07	9.19	91	92	1	75-125			1	20
Selenium	10.0	ND	9.47	9.55	95	95	1	75-125			1	20
Silver	10.0	0.00352	9.04	9.18	90	92	1	75-125			2	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

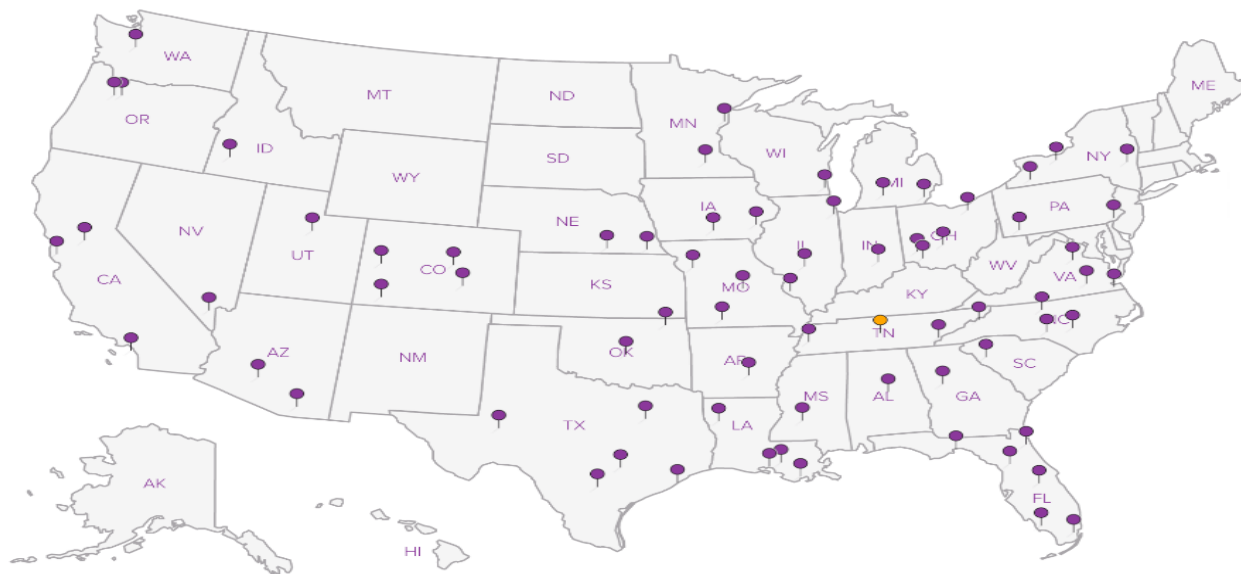
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Billing Information:

~~Gene McNutt~~
~~651 Corporate Circle Ste 114~~
~~Golden, CO 80020~~

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



L·A·B S·C·I·E·N·C·E·S

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 1813 066

J042

Acctnum: ENVIRONGCO

Template:

Prelogin

TSR: 288 - Daphne Richards

PB:

Shipped Via:

Rem./Contaminant	Sample # (lab only)
------------------	---------------------

-01
-02

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold # _____

Condition: (lab use only) 0010

Relinquished by : (Signature)

Date:	Time:
1/20/16	1400

Time:

Received by: (Signature)

Samples returned via: ☐ UPS

☐ FedEx ☐ Courier ☐ _____

Relinquished by : (Signature)

Date: _____ Time: _____

Time:

Received by: (Signature)

Temp: °C Bottles Received:

Arab 2-402

Reinquished by : (Signature)

Date:	Time:
-------	-------

Time:

Received for lab by: (Signature)

Date: 1.21.16 Time: 1000

COC Seal Intact: ☐ Y ☐ N ☒ NA

pH Checked:	NCF:
-------------	------

Envirocon

Sample Delivery Group: L813139
Samples Received: 01/15/2016
Project Number: 1495001
Description: BBGRR23 Ft McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



¹ Cp: Cover Page	1	¹ Cp
² Tc: Table of Contents	2	² Tc
³ Ss: Sample Summary	3	
⁴ Cn: Case Narrative	4	³ Ss
⁵ Sr: Sample Results	5	⁴ Cn
R23P079Q-PTB1-1FT L813139-01	5	
⁶ Qc: Quality Control Summary	6	⁵ Sr
Mercury by Method 7470A	6	
Metals (ICP) by Method 6010B	7	⁶ Qc
⁷ Gl: Glossary of Terms	8	⁷ Gl
⁸ Al: Accreditations & Locations	9	
⁹ Sc: Chain of Custody	10	⁸ Al
		⁹ Sc



R23P079Q-PTB1-1FT L813139-01 Waste

Collected by
Elizabeth MCollected date/time
01/14/16 09:50Received date/time
01/15/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	¹ Cp
Mercury by Method 7470A	WG844617	1	01/26/16 12:40	01/27/16 09:46	BRJ	² Tc
Metals (ICP) by Method 6010B	WG844627	1	01/26/16 10:40	01/26/16 16:26	WBD	³ Ss
Preparation by Method 1311	WG844237	1	01/25/16 12:36	01/25/16 12:37	CHM	⁴ Cn
						⁵ Sr
						⁶ Qc
						⁷ Gl
						⁸ Al
						⁹ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/25/2016 12:36:12 PM	WG844237

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	01/27/2016 09:46	WG844617

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.450	5	1	01/26/2016 16:26	WG844627
Barium	ND		1.35	100	1	01/26/2016 16:26	WG844627
Cadmium	ND		0.450	1	1	01/26/2016 16:26	WG844627
Chromium	ND		0.450	5	1	01/26/2016 16:26	WG844627
Lead	ND		0.450	5	1	01/26/2016 16:26	WG844627
Selenium	ND		0.450	1	1	01/26/2016 16:26	WG844627
Silver	ND		0.450	5	1	01/26/2016 16:26	WG844627

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Method Blank (MB)

(MB) 01/27/16 09:13

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB RDL mg/l
Mercury	ND		0.0100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/27/16 09:16 • (LCSD) 01/27/16 09:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.0300	0.0312	0.0314	104	105	80-120			0	20

L813255-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/27/16 09:21 • (MS) 01/27/16 09:23 • (MSD) 01/27/16 09:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.0300	0.0000810	0.0262	0.0318	87	106	1	75-125			19	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 01/26/16 15:43

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Arsenic	ND		0.450
Barium	ND		1.35
Cadmium	ND		0.450
Chromium	ND		0.450
Lead	ND		0.450
Selenium	ND		0.450
Silver	ND		0.450

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 01/26/16 15:46 • (LCSD) 01/26/16 15:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	9.46	9.46	95	95	80-120			0	20
Barium	10.0	9.27	9.26	93	93	80-120			0	20
Cadmium	10.0	9.33	9.30	93	93	80-120			0	20
Chromium	10.0	9.38	9.30	94	93	80-120			1	20
Lead	10.0	9.30	9.24	93	92	80-120			1	20
Selenium	10.0	9.45	9.48	94	95	80-120			0	20
Silver	10.0	9.24	9.17	92	92	80-120			1	20

L813012-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/26/16 15:52 • (MS) 01/26/16 15:58 • (MSD) 01/26/16 16:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	0.0265	9.82	9.86	98	98	1	75-125			0	20
Barium	10.0	0.587	9.74	9.72	92	91	1	75-125			0	20
Cadmium	10.0	0.0000246	9.51	9.50	95	95	1	75-125			0	20
Chromium	10.0	0.00168	9.33	9.38	93	94	1	75-125			0	20
Lead	10.0	0.0105	9.41	9.37	94	94	1	75-125			0	20
Selenium	10.0	0.0467	9.99	10.0	99	100	1	75-125			0	20
Silver	10.0	0.00214	9.41	9.46	94	95	1	75-125			1	20



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

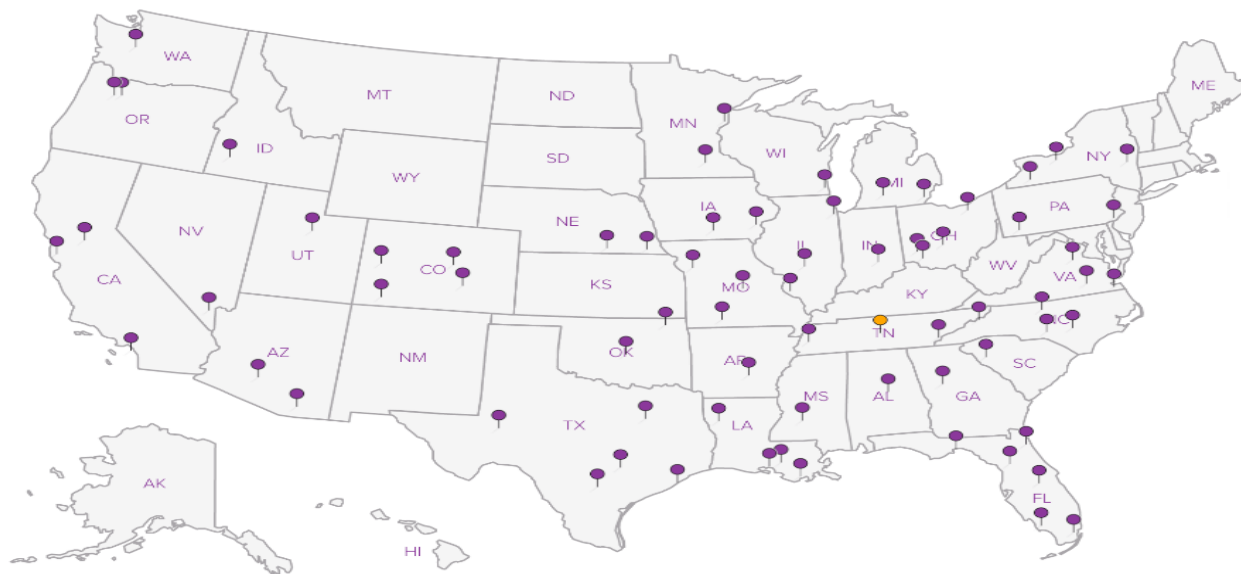
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

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Envirocon

101 International Dr
651 Corporate Circle Ste 114
Golden, CO 80020

Missoula, MT 59808

Report to:

Elizabeth Miledragovich

Billing Information:

Gene McNutt
651 Corporate Circle Ste 114
Golden, CO 80020

Email To:

lmiledragovich@envirocon.com

Project

Description: BBGR23 Ft McClellan

City/State

Collected: Anniston, AL

Lab Project #

Phone: 303-215-0187

Fax: 406-565-7576

Client Project #

1495001

Collected by (print):

Elizabeth Miledragovich

Site/Facility ID #

Range 23

P.O. #

ENVIRONGCO-1210145

Collected by (signature):

Elizabeth Miledragovich

Rush? (Lab MUST Be Notified)

Same Day _____ 200%
Next Day _____ 100%
Two Day _____ 50%
Three Day _____ 25%

Date Results Needed

Email? ☐ No ☒ YesFAX? ☐ No ☐ YesNo.
of
Cntrs

Immediately

Packed on Ice N ☒ Y ☐

Sample ID

Comp/Grab

Matrix #

Depth

Date

Time

No.
of
Cntrs

R23P1A-Q-PTB1-1FT Comp SS 1FT 1/14/16 0950 1 X

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



L.A.B. S.C.I.E.N.C.E.S.

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

18111 N

Ta

H130

6813139

Acctnum: ENVIRONGCO

Template:

Protocol:

TSR: 288 - Daphne Richards

PB:

Shipped Via:

Rem./Contaminant

Sample # (lab only)

-01

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

6573 5223 5148

Lvl #

Relinquished by: (Signature)

Elizabeth Miledragovich

Date:

1/14/16

Time:

13:00

Received by: (Signature)

[Signature]

Samples returned via: ☐ UPS☐ FedEx ☐ Courier ☐ _____

Temp: _____ °C Bottles Received:

Amb 2 = 402

Date: 1/15/16 Time: 90

Condition:

(lab use only) Good

COC Seal Intact: ☐ Y ☒ N ☐ NA

pH Checked:

NCF:

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

[Signature]

Andy Vann

From: Daphne Richards
Sent: Thursday, January 21, 2016 10:42 AM
To: Login
Subject: Relog L812191 ENVIRONGCO

Please relog L812191 for TCLP metals
thanks

Daphne Richards
Technical Service Representative
E-mail: drichards@esclabsciences.com
Phone: 800-767-5859 Ext. 9662
Direct: 615-773-9662



Envirocon

Sample Delivery Group: L815159
Samples Received: 02/03/2016
Project Number: 1495001
Description: BBG RR23 Ft. McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

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¹Cp: Cover Page	1
²Tc: Table of Contents	2
³Ss: Sample Summary	3
⁴Cn: Case Narrative	7
⁵Sr: Sample Results	8
R23P079Q-POSTXCSSF22-A L815159-01	8
R23P079Q-POSTXCSSF22-B L815159-02	9
R23P079Q-POSTXCSSF22-C L815159-03	10
R23P079Q-POSTXCSSF22-CS L815159-04	11
R23P079Q-POSTXCSSF22-D L815159-05	12
R23P079Q-POSTXCSSF22-SW1 L815159-06	13
R23P079Q-POSTXCSSF22-SW2 L815159-07	14
R23P079Q-POSTXCSSF22-SW3 L815159-08	15
R23P079Q-POSTXCSSF22-SW4 L815159-09	16
R23P079Q-POSTXCSSF22-SW5 L815159-10	17
R23P079Q-POSTXCSSF22-SW6 L815159-11	18
R23P079Q-POSTXCSSB19-A L815159-12	19
R23P079Q-POSTXCSSB19-B L815159-13	20
R23P079Q-POSTXCSSB19-C L815159-14	21
R23P079Q-POSTXCSSB19-D L815159-15	22
R23P079Q-POSTXCSSB19-SW1 L815159-16	23
R23P079Q-POSTXCSSB19-SW2 L815159-17	24
R23P079Q-POSTXCSSB19-SW3 L815159-18	25
R23P079Q-POSTXCSSB19-SW4 L815159-19	26
R23P079Q-POSTXCSSB21-A L815159-20	27
R23P079Q-POSTXCSSB21-A-DUP L815159-21	28
R23P079Q-RINSE-1 L815159-22	29
⁶Qc: Quality Control Summary	30
Total Solids by Method 2540 G-2011	30
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Metals (ICP) by Method 6010B	34
⁷Gl: Glossary of Terms	36
⁸Al: Accreditations & Locations	37
⁹Sc: Chain of Custody	38





R23P079Q-POSTXCSSF22-A L815159-01 Solid

Collected by
Elizabeth MCollected date/time
02/01/16 15:25Received date/time
02/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 22:51	ST
Total Solids by Method 2540 G-2011	WG846587	1	02/03/16 13:07	02/03/16 13:13	KDW

¹ Cp² Tc³ Ss

R23P079Q-POSTXCSSF22-B L815159-02 Solid

Collected by
Elizabeth MCollected date/time
02/01/16 15:26Received date/time
02/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:07	ST
Total Solids by Method 2540 G-2011	WG846587	1	02/03/16 13:07	02/03/16 13:13	KDW

⁴ Cn⁵ Sr⁶ Qc

R23P079Q-POSTXCSSF22-C L815159-03 Solid

Collected by
Elizabeth MCollected date/time
02/01/16 15:30Received date/time
02/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:10	ST
Total Solids by Method 2540 G-2011	WG846587	1	02/03/16 13:07	02/03/16 13:13	KDW

⁷ Gl⁸ Al⁹ Sc

R23P079Q-POSTXCSSF22-CS L815159-04 Solid

Collected by
Elizabeth MCollected date/time
02/01/16 15:35Received date/time
02/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:19	ST
Total Solids by Method 2540 G-2011	WG846587	1	02/03/16 13:07	02/03/16 13:13	KDW

R23P079Q-POSTXCSSF22-D L815159-05 Solid

Collected by
Elizabeth MCollected date/time
02/01/16 15:37Received date/time
02/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:22	ST
Total Solids by Method 2540 G-2011	WG846587	1	02/03/16 13:07	02/03/16 13:13	KDW

R23P079Q-POSTXCSSF22-SW1 L815159-06 Solid

Collected by
Elizabeth MCollected date/time
02/01/16 15:40Received date/time
02/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:25	ST
Total Solids by Method 2540 G-2011	WG846587	1	02/03/16 13:07	02/03/16 13:13	KDW

R23P079Q-POSTXCSSF22-SW2 L815159-07 Solid

Collected by
Elizabeth MCollected date/time
02/01/16 15:42Received date/time
02/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:28	ST
Total Solids by Method 2540 G-2011	WG846587	1	02/03/16 13:07	02/03/16 13:13	KDW



R23P079Q-POSTXCSSF22-SW3 L815159-08 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 15:44	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:31	ST
Total Solids by Method 2540 G-2011	WG846587	1	02/03/16 13:07	02/03/16 13:13	KDW

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

R23P079Q-POSTXCSSF22-SW4 L815159-09 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 15:46	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:35	ST
Total Solids by Method 2540 G-2011	WG846587	1	02/03/16 13:07	02/03/16 13:13	KDW

R23P079Q-POSTXCSSF22-SW5 L815159-10 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 15:49	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:38	ST
Total Solids by Method 2540 G-2011	WG846587	1	02/03/16 13:07	02/03/16 13:13	KDW

R23P079Q-POSTXCSSF22-SW6 L815159-11 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 15:52	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:41	ST
Total Solids by Method 2540 G-2011	WG846590	1	02/03/16 12:59	02/03/16 13:05	KDW

R23P079Q-POSTXCSSB19-A L815159-12 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 16:10	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:44	ST
Total Solids by Method 2540 G-2011	WG846590	1	02/03/16 12:59	02/03/16 13:05	KDW

R23P079Q-POSTXCSSB19-B L815159-13 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 16:12	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:47	ST
Total Solids by Method 2540 G-2011	WG846590	1	02/03/16 12:59	02/03/16 13:05	KDW

R23P079Q-POSTXCSSB19-C L815159-14 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 16:14	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:56	ST
Total Solids by Method 2540 G-2011	WG846590	1	02/03/16 12:59	02/03/16 13:05	KDW



R23P079Q-POSTXCSSB19-D L815159-15 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 16:24	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/03/16 23:59	ST
Total Solids by Method 2540 G-2011	WG846590	1	02/03/16 12:59	02/03/16 13:05	KDW

¹ Cp

² Tc

³ Ss

R23P079Q-POSTXCSSB19-SW1 L815159-16 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 16:27	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/04/16 00:02	ST
Total Solids by Method 2540 G-2011	WG846590	1	02/03/16 12:59	02/03/16 13:05	KDW

⁴ Cn

⁵ Sr

⁶ Qc

R23P079Q-POSTXCSSB19-SW2 L815159-17 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 16:30	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/04/16 00:05	ST
Total Solids by Method 2540 G-2011	WG846590	1	02/03/16 12:59	02/03/16 13:05	KDW

⁷ Gl

⁸ Al

R23P079Q-POSTXCSSB19-SW3 L815159-18 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 16:32	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/04/16 00:08	ST
Total Solids by Method 2540 G-2011	WG846590	1	02/03/16 12:59	02/03/16 13:05	KDW

⁹ Sc

R23P079Q-POSTXCSSB19-SW4 L815159-19 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 16:35	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/04/16 00:11	ST
Total Solids by Method 2540 G-2011	WG846590	1	02/03/16 12:59	02/03/16 13:05	KDW

R23P079Q-POSTXCSSB21-A L815159-20 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 16:40	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846615	1	02/03/16 12:50	02/04/16 00:14	ST
Total Solids by Method 2540 G-2011	WG846590	1	02/03/16 12:59	02/03/16 13:05	KDW

R23P079Q-POSTXCSSB21-A-DUP L815159-21 Solid

			Collected by Elizabeth M	Collected date/time 02/01/16 16:45	Received date/time 02/03/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846648	1	02/03/16 13:13	02/04/16 01:00	LTB
Total Solids by Method 2540 G-2011	WG846593	1	02/03/16 16:08	02/03/16 16:16	MEL

R23P079Q-RINSE-1 L815159-22 WW

Collected by
Elizabeth M

Collected date/time
02/01/16 16:50

Received date/time
02/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 200.7	WG846618	1	02/03/16 17:41	02/04/16 00:41	ST

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.3		1	02/03/2016 13:13	WG846587

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.46	1	02/03/2016 22:51	WG846615
Lead	198	J6	0.615	1	02/03/2016 22:51	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.2		1	02/03/2016 13:13	WG846587

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.29	1	02/03/2016 23:07	WG846615
Lead	31.4		0.573	1	02/03/2016 23:07	WG846615

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.4		1	02/03/2016 13:13	WG846587

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.34	1	02/03/2016 23:10	WG846615
Lead	60.8		0.585	1	02/03/2016 23:10	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.4		1	02/03/2016 13:13	WG846587

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.34	1	02/03/2016 23:19	WG846615
Lead	52.6		0.586	1	02/03/2016 23:19	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.6		1	02/03/2016 13:13	WG846587

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.36	1	02/03/2016 23:22	WG846615
Lead	24.1		0.591	1	02/03/2016 23:22	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	02/03/2016 13:13	WG846587

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.52	1	02/03/2016 23:25	WG846615
Lead	21.3		0.631	1	02/03/2016 23:25	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.0		1	02/03/2016 13:13	WG846587

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.30	1	02/03/2016 23:28	WG846615
Lead	19.2		0.575	1	02/03/2016 23:28	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.0		1	02/03/2016 13:13	WG846587

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.35	1	02/03/2016 23:31	WG846615
Lead	13.4		0.589	1	02/03/2016 23:31	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 02/01/16 15:46

L815159

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	02/03/2016 13:13	WG846587

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.33	1	02/03/2016 23:35	WG846615
Lead	51.2		0.583	1	02/03/2016 23:35	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.4		1	02/03/2016 13:13	WG846587

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.31	1	02/03/2016 23:38	WG846615
Lead	10.1		0.579	1	02/03/2016 23:38	WG846615

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	02/03/2016 13:05	WG846590

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.48	1	02/03/2016 23:41	WG846615
Lead	63.9		0.620	1	02/03/2016 23:41	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.8		1	02/03/2016 13:05	WG846590

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.23	1	02/03/2016 23:44	WG846615
Lead	17.6		0.557	1	02/03/2016 23:44	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	02/03/2016 13:05	WG846590

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.33	1	02/03/2016 23:47	WG846615
Lead	21.5		0.583	1	02/03/2016 23:47	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.4		1	02/03/2016 13:05	WG846590

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.31	1	02/03/2016 23:56	WG846615
Lead	10.8		0.579	1	02/03/2016 23:56	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.8		1	02/03/2016 13:05	WG846590

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.48	1	02/03/2016 23:59	WG846615
Lead	47.2		0.619	1	02/03/2016 23:59	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	02/03/2016 13:05	WG846590

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.33	1	02/04/2016 00:02	WG846615
Lead	9.48		0.583	1	02/04/2016 00:02	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.1		1	02/03/2016 13:05	WG846590

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.32	1	02/04/2016 00:05	WG846615
Lead	13.5		0.581	1	02/04/2016 00:05	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	02/03/2016 13:05	WG846590

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	11.6		2.52	1	02/04/2016 00:08	WG846615
Lead	1410		0.631	1	02/04/2016 00:08	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 02/01/16 16:35

L815159

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.6		1	02/03/2016 13:05	WG846590

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.42	1	02/04/2016 00:11	WG846615
Lead	27.9		0.605	1	02/04/2016 00:11	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.9		1	02/03/2016 13:05	WG846590

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.44	1	02/04/2016 00:14	WG846615
Lead	44.1		0.611	1	02/04/2016 00:14	WG846615

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 02/01/16 16:45

L815159

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.3	J3	1	02/03/2016 16:16	WG846593

1 Cp

2 Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND	J6	2.52	1	02/04/2016 01:00	WG846648
Lead	93.5		0.630	1	02/04/2016 01:00	WG846648

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.0100	1	02/04/2016 00:41	WG846618
Lead	ND		0.00500	1	02/04/2016 00:41	WG846618

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) 02/03/16 13:13

Analyte	MB Result %	<u>MB Qualifier</u>	MB RDL %
Total Solids	0.00140		

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L815159-10 Original Sample (OS) • Duplicate (DUP)

(OS) 02/03/16 13:13 • (DUP) 02/03/16 13:13

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Total Solids	86.4	86.2	1	0.253		5

Laboratory Control Sample (LCS)

(LCS) 02/03/16 13:13

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	49.9	99.9	85.0-115	

[L815159-11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) 02/03/16 13:05

	MB Result	<u>MB Qualifier</u>	MB RDL
Analyte	%		%
Total Solids	0.000100		

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L815159-20 Original Sample (OS) • Duplicate (DUP)

(OS) 02/03/16 13:05 • (DUP) 02/03/16 13:05

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	81.9	81.7	1	0.205		5

Laboratory Control Sample (LCS)

(LCS) 02/03/16 13:05

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	49.9	99.9	85.0-115	



Method Blank (MB)

(MB) 02/03/16 16:16

Analyte	MB Result %	MB Qualifier	MB RDL %
Total Solids	0.000800		

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L815159-21 Original Sample (OS) • Duplicate (DUP)

(OS) 02/03/16 16:16 • (DUP) 02/03/16 16:16

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	79.3	84.1	1	5.85	J3	5

Laboratory Control Sample (LCS)

(LCS) 02/03/16 16:16

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	



Method Blank (MB)

(MB) 02/03/16 22:48

	MB Result	MB Qualifier	MB RDL
Analyte	mg/l		mg/l
Antimony	ND		0.0100
Lead	ND		0.00500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/03/16 22:50 • (LCSD) 02/03/16 22:53

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Antimony	1.00	1.05	1.06	105	106	85-115			1	20
Lead	1.00	1.03	1.05	103	105	85-115			1	20

L814935-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/03/16 22:56 • (MS) 02/03/16 23:39 • (MSD) 02/03/16 23:42

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Antimony	1.00	ND	1.08	1.08	108	108	1	75-125			0	20
Lead	1.00	0.00286	1.05	1.05	105	105	1	75-125			0	20

L815003-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/04/16 00:48 • (MS) 02/04/16 00:51 • (MSD) 02/04/16 00:53

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Antimony	1.00	ND	1.06	1.07	106	107	1	75-125			1	20
Lead	1.00	0.00627	1.05	1.06	104	105	1	75-125			1	20



Method Blank (MB)

(MB) 02/03/16 22:43

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Antimony	ND		2.00
Lead	ND		0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/03/16 22:45 • (LCSD) 02/03/16 22:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	103	104	103	104	80-120			2	20
Lead	100	97.6	99.2	98	99	80-120			2	20

L815159-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/03/16 22:51 • (MS) 02/03/16 23:00 • (MSD) 02/03/16 23:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	100	1.80	82.8	81.9	81	80	1	75-125			1	20
Lead	100	161	194	191	33	30	1	75-125	J6	J6	2	20



Method Blank (MB)

(MB) 02/04/16 00:46

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Antimony	ND		2.00
Lead	ND		0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/04/16 00:48 • (LCSD) 02/04/16 00:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	103	99.0	103	99	80-120			4	20
Lead	100	98.5	94.9	98	95	80-120			4	20

L815159-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/04/16 01:00 • (MS) 02/04/16 01:09 • (MSD) 02/04/16 01:12

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	100	1.37	50.8	47.9	49	47	1	75-125	J6	J6	6	20
Lead	100	74.1	174	173	100	99	1	75-125			0	20



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

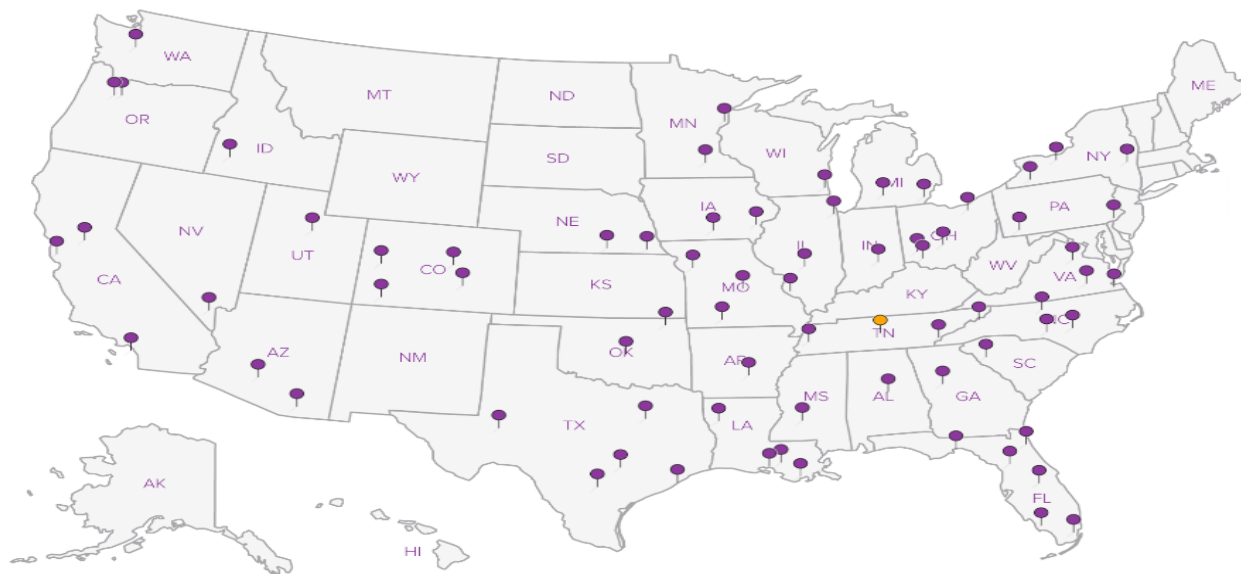
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Envirocon

101 International Dr.
651 Corporate Circle Ste 114
Golden, CO 80020

Billing Information:

Gene McNutt
651 Corporate Circle Ste 114
Golden, CO 80020

Report to:

Elizabeth Milodragovich

Email To:

milodragovich@envirocon.com

Project

Description: BB6RR23 Ft. McClellan

City/State

Collected: Anniston, AL

Phone: 303-215-0187

Fax: 406-565-7576

Client Project

1495001

Lab Project

Collected by (print):

Elizabeth Milodragovich Range 23

Site/Facility ID

ENVIRON GCO-121045

P.O.

ENVIRON GCO-121045

Collected by (signature):

Elizabeth Milodragovich

Rush? (Lab MUST Be Notified)

Same Day 200%
☒ Next Day 100%
Two Day 50%
Three Day 25%

Date Results Needed

Email? ☒ No ☒ Yes
FAX? ☐ No ☐ Yes

No.
of
Cntrs

Immediately
Packed on Ice N ☒ Y ☐

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative	Chain of Custody
R23P079Q-POSTXCSSFZ2-A comp	SS			2/1/16	15:25	1	X	
R23P079Q-POSTXCSSFZ2-B	SS				15:26	1	X	
R23P079Q-POSTXCSSFZ2-C	SS				15:30	1	X	
R23P079Q-POSTXCSSFZ2-CSV	SS				15:35	1	X	
R23P079Q-POSTXCSSFZ2-D comp	SS				15:37	1	X	
R23P079Q-POSTXCSSFZ2-SW1	SS				15:40	1	X	
R23P079Q-POSTXCSSFZ2-SW2	SS				15:42	1	X	
R23P079Q-POSTXCSSFZ2-SW3	SS				15:44	1	X	
R23P079Q-POSTXCSSFZ2-SW4	SS				15:46	1	X	
R23P079Q-POSTXCSSFZ2-SW5	SS				15:49	1	X	

* Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

643671318031

Relinquished by: (Signature)

Gene McNutt

Date:

2/1/16

Time:

17:30

Received by: (Signature)

Gene McNutt

Samples returned via:

☒ UPS ☐ FedEx ☐ Courier ☐ Other

Hold

Condition: (lab use only)

Relinquished by: (Signature)

Gene McNutt

Date:

Time:

Received by: (Signature)

Gene McNutt

Temp: °C Bottles Received:

Amb 22

COC Seal Intact: ☐ Y ☐ N ☐ NA

Relinquished by: (Signature)

Gene McNutt

Date:

Time:

Received for lab by: (Signature)

Gene McNutt

Date: Time:

2/3/16 0900

pH Checked:

NCF:

Chain of Custody

Page 1 of 1



LABORATORY OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L#

L815159

Table

Acctnum: ENVIRON GCO

Template:

Prelogin:

TSR: 288 - Daphne Richards

PB:

Shipped Via:

From/Contaminant

Sample # (lab only)

- 81

- 02

- 03

- 04

- 05

- 06

- 07

- 08

- 09

- 10

Envirocon 101 International Dr. 651 Corporate Circle Ste 114 Golden, CO 80020 <i>Missoula, MT 59808</i>				Billing Information:				Analysis / Container / Preservative										Chain of Custody Page 2 of 3	
				Gene McNutt 651 Corporate Circle Ste 114 Golden, CO 80020														 ESC L.A.B. S.C.I.E.N.C.E.S. YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Report to:				Email To:				10010B-Pb, Sb										L#	
Elizabeth Milodragovich i.milodragovich@envirocon.com																		1815159	
Project Description:				City/State Collected:														Table #	
BBGRRZ3 Ft. McClellan Anniston, AL																			
Phone: 303-215-0187 Fax: 406-565-7576				Client Project # 1495001															
Collected by (print):				Site/Facility ID #				P.O. #				Acctnum: ENVIRONGCO							
Elizabeth Milodragovich <i>Eliza Milodragovich</i>				Range Z3				ENVIRONGCO-12104				Template:							
Collected by (signature):				Rush? (Lab MUST Be Notified)				Date Results Needed				Prelogin:							
Same Day 200% Next Day 100% Two Day 50% Three Day 25%				Email? ☐ No ☒ Yes FAX? ☐ No ☐ Yes								TSR: 288 - Daphne Richards							
Immediately												PB:							
Packed on ice N ☒ Y ☐												Shipped Via:							
												Rem./Contaminant							
												Sample # (lab only)							
Sample ID				Comp/Grab				Matrix *				Depth							
R23P079Q-POSTXCSSF22-grab				SS				2/1/16				15:52							
R23P079Q-POSTXCSSB19-A-comp												16:10							
R23P079Q-POSTXCSSB19-B												16:12							
R23P079Q-POSTXCSSB19-C												16:14							
R23P079Q-POSTXCSSB19-D												16:24							
R23P079Q-POSTXCSSB19-S101-grab												16:27							
R23P079Q-POSTXCSSB19-S102												16:30							
R23P079Q-POSTXCSSB19-S103												16:32							
R23P079Q-POSTXCSSB19-S104												16:35							
R23P079Q-POSTXCSSB21-A-comp												16:40							
* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____														pH _____ Temp _____					
Remarks:														Flow _____ Other _____					
Relinquished by: (Signature)				Date:				Time:				Received by: (Signature)							
<i>Eliza Milodragovich</i>				2/1/16				17:30				Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____							
Relinquished by: (Signature)				Date:				Time:				Received by: (Signature)							
												Temp: _____ °C Bottles Received: _____ Amb 22							
Relinquished by: (Signature)				Date:				Time:				Received for lab by: (Signature)							
												Date: _____ Time: _____ 2/3/16 0900							
Condition: (lab use only)														Hold #					
COC Seal Intact: _____ Y _____ N _____ NA														pH Checked: _____ NCF: _____					

Envirocon

101 International Dr
651 Corporate Circle Ste 114
Golden, CO 80020

Billing Information:

Gene McNutt
651 Corporate Circle Ste 114
Golden, CO 80020

Analysis / Container / Preservative

Chain of Custody Page 1 of 3



YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to:

Elizabeth Miledragovich

Email To:

lmiledragovich@envirocon.com

Project

Description: BB6RR23 Ft. McClellan

City/State

Collected: Anniston, AL

Phone: 303-245-0187

Fax: 406-565-7576

Client Project

1495001

Lab Project

Collected by (print):

Elizabeth Miledragovich Range 23

Site/Facility ID

Range 23

P.O.

ENVIRON6CO-121045

Collected by (signature):

Elizabeth Miledragovich

Rush? (Lab MUST Be Notified)

Same Day200%
☒ Next Day100%
Two Day50%
Three Day25%

Date Results Needed

Email? ☒ No ☒ Yes
FAX? ☐ No ☐ Yes

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
R23P079Q-POSTXCSSFZZ-A comp		SS		2/1/16	15:25	1
R23P079Q-POSTXCSSFZZ-B		SS			15:26	1
R23P079Q-POSTXCSSFZZ-C		SS			15:30	1
R23P079Q-POSTXCSSFZZ-CSV		SS			15:35	1
R23P079Q-POSTXCSSFZZ-D comp		SS			15:37	1
R23P079Q-POSTXCSSFZZ-SW1		SS			15:40	1
R23P079Q-POSTXCSSFZZ-SW2		SS			15:42	1
R23P079Q-POSTXCSSFZZ-SW3		SS			15:44	1
R23P079Q-POSTXCSSFZZ-SW4		SS			15:46	1
R23P079Q-POSTXCSSFZZ-SW5		SS			15:49	1

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

643671318031

Hold #

Relinquished by: (Signature)

Elizabeth Miledragovich

Date:

2/1/16

Time:

17:30

Received by: (Signature)

[Signature]

Samples returned via: ☐ UPS

☒ FedEx ☐ Courier ☐ _____

Condition: (lab use only)

SW7

Relinquished by: (Signature)

[Signature]

Date:

Time:

Received by: (Signature)

[Signature]

Temp: °C Bottles Received:

AMB 22

COC Seal Intact: ☐ Y ☐ N ☐ NA

OK

Relinquished by: (Signature)

[Signature]

Date:

Time:

Received for lab by: (Signature)

[Signature]

Date:

2/3/16

Time:

08:20

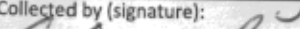
pH Checked:

NCF:

Billing Information:

Gene McNutt
651 Corporate Circle Ste 114
Golden, CO 80020

Report to:	Email To:
Elizabeth Miledragovich	lmiledragovich@envirocon.com
Project	City/State
Description: BBGRR23 Ft. McClellan	Collected: Anniston, AL

Phone: 303-215-0187	Client Project #	Lab Project #
Fax: 406 565 7576	1495001	
Collected by (print): Elizabeth Milodragich	Site/Facility ID #	P.O. #
Collected by (signature): 	Range 23	ENVIRON60-121045
	Rush? (Lab MUST Be Notified)	Date Results Needed
Immediately	☐ Same Day200% ☒ Next Day100% ☐ Two Day50% ☐ Three Day25%	Email? ☐ No ☒ Yes FAX? ☐ No ☐ Yes
Packed on Ice N X Y		No.

[illegible]

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

Analysis / Container / Preservative

Chain of Custody Page 3 of 4

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 1215159

Table #

Acctnum: **ENVIRONGCO**

Template:

Prelogin:

TSR: 288 - Daphne Richards

PB:

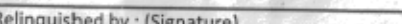
Shipped Via:

Rem./Contaminant	Sample # (lab only)
------------------	---------------------

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature) 	Date: 2/1/16	Time: 17:30	Received by: (Signature) 	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____	Condition: (lab use only) Sw7
Relinquished by : (Signature) 	Date:	Time:	Received by: (Signature) 	Temp: °C Bottles Received: Amb 22	COC Seal Intact: ___ Y ___ N ___ NA 
Relinquished by : (Signature) 	Date:	Time:	Received for lab by: (Signature) 	Date: 2/3/16	pH Checked: NCF
				Time: 09:00	

Envirocon

Sample Delivery Group: L815477
Samples Received: 02/04/2016
Project Number: 1495001
Description: BBGRR23 Ft. McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



¹Cp: Cover Page	1
²Tc: Table of Contents	2
³Ss: Sample Summary	3
⁴Cn: Case Narrative	6
⁵Sr: Sample Results	7
R23P079Q-POSTXCSSB21-B L815477-01	7
R23P079Q-POSTXCSSB21-C L815477-02	8
R23P079Q-POSTXCSSB21-D L815477-03	9
R23P079Q-POSTXCSSB21-SW1 L815477-04	10
R23P079Q-POSTXCSSB21-SW2 L815477-05	11
R23P079Q-POSTXCSSB21-SW3 L815477-06	12
R23P079Q-POSTXCSSB21-SW4 L815477-07	13
R23P079Q-POSTXCSSB21-SW5 L815477-08	14
R23P079Q-POSTXCSSE20-A L815477-09	15
R23P079Q-POSTXCSSE20-B L815477-10	16
R23P079Q-POSTXCSSE20-C L815477-11	17
R23P079Q-POSTXCSSE20-D L815477-12	18
R23P079Q-POSTXCSSE20-SW1 L815477-13	19
R23P079Q-POSTXCSSE20-SW2 L815477-14	20
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⁸Al: Accreditations & Locations	29
⁹Sc: Chain of Custody	30





R23P079Q-POSTXCSSB21-B L815477-01 Solid

			Collected by Elizabeth M	Collected date/time 02/02/16 10:12	Received date/time 02/04/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 16:22	WBD
Total Solids by Method 2540 G-2011	WG846915	1	02/04/16 13:06	02/04/16 13:13	KDW

¹ Cp

² Tc

³ Ss

R23P079Q-POSTXCSSB21-C L815477-02 Solid

			Collected by Elizabeth M	Collected date/time 02/02/16 10:15	Received date/time 02/04/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 16:37	WBD
Total Solids by Method 2540 G-2011	WG846915	1	02/04/16 13:06	02/04/16 13:13	KDW

⁴ Cn

⁵ Sr

⁶ Qc

R23P079Q-POSTXCSSB21-D L815477-03 Solid

			Collected by Elizabeth M	Collected date/time 02/02/16 10:20	Received date/time 02/04/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 16:40	WBD
Total Solids by Method 2540 G-2011	WG846915	1	02/04/16 13:06	02/04/16 13:13	KDW

⁷ Gl

⁸ Al

⁹ Sc

R23P079Q-POSTXCSSB21-SW1 L815477-04 Solid

			Collected by Elizabeth M	Collected date/time 02/02/16 10:25	Received date/time 02/04/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 16:49	WBD
Total Solids by Method 2540 G-2011	WG846915	1	02/04/16 13:06	02/04/16 13:13	KDW

R23P079Q-POSTXCSSB21-SW2 L815477-05 Solid

			Collected by Elizabeth M	Collected date/time 02/02/16 10:29	Received date/time 02/04/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 16:52	WBD
Total Solids by Method 2540 G-2011	WG846915	1	02/04/16 13:06	02/04/16 13:13	KDW

R23P079Q-POSTXCSSB21-SW3 L815477-06 Solid

			Collected by Elizabeth M	Collected date/time 02/02/16 10:33	Received date/time 02/04/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 16:55	WBD
Total Solids by Method 2540 G-2011	WG846915	1	02/04/16 13:06	02/04/16 13:13	KDW

R23P079Q-POSTXCSSB21-SW4 L815477-07 Solid

			Collected by Elizabeth M	Collected date/time 02/02/16 10:35	Received date/time 02/04/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 16:58	WBD
Total Solids by Method 2540 G-2011	WG846915	1	02/04/16 13:06	02/04/16 13:13	KDW



R23P079Q-POSTXCSSB21-SW5 L815477-08 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 10:40

Received date/time
02/04/16 09:00

¹ Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 17:01	WBD
Total Solids by Method 2540 G-2011	WG846915	1	02/04/16 13:06	02/04/16 13:13	KDW

² Tc

³ Ss

R23P079Q-POSTXCSSE20-A L815477-09 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 10:56

Received date/time
02/04/16 09:00

⁴ Cn

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 17:04	WBD
Total Solids by Method 2540 G-2011	WG846916	1	02/04/16 13:53	02/04/16 14:03	KDW

⁵ Sr

⁶ Qc

R23P079Q-POSTXCSSE20-B L815477-10 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 11:00

Received date/time
02/04/16 09:00

⁷ Gl

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 17:07	WBD
Total Solids by Method 2540 G-2011	WG846916	1	02/04/16 13:53	02/04/16 14:03	KDW

⁸ Al

⁹ Sc

R23P079Q-POSTXCSSE20-C L815477-11 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 11:02

Received date/time
02/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 17:10	WBD
Total Solids by Method 2540 G-2011	WG846916	1	02/04/16 13:53	02/04/16 14:03	KDW

R23P079Q-POSTXCSSE20-D L815477-12 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 11:05

Received date/time
02/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 17:14	WBD
Total Solids by Method 2540 G-2011	WG846916	1	02/04/16 13:53	02/04/16 14:03	KDW

R23P079Q-POSTXCSSE20-SW1 L815477-13 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 11:08

Received date/time
02/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 17:17	WBD
Total Solids by Method 2540 G-2011	WG846916	1	02/04/16 13:53	02/04/16 14:03	KDW

R23P079Q-POSTXCSSE20-SW2 L815477-14 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 11:11

Received date/time
02/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 17:26	WBD
Total Solids by Method 2540 G-2011	WG846916	1	02/04/16 13:53	02/04/16 14:03	KDW

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



R23P079Q-POSTXCSSE20-SW3 L815477-15 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 11:15

Received date/time
02/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 17:29	WBD
Total Solids by Method 2540 G-2011	WG846916	1	02/04/16 13:53	02/04/16 14:03	KDW

¹ Cp

² Tc

³ Ss

R23P079Q-POSTXCSSE20-SW4 L815477-16 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 11:17

Received date/time
02/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 17:32	WBD
Total Solids by Method 2540 G-2011	WG846916	1	02/04/16 13:53	02/04/16 14:03	KDW

⁴ Cn

⁵ Sr

⁶ Qc

R23P079Q-POSTXCSSE20-SW5 L815477-17 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 11:20

Received date/time
02/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 17:35	WBD
Total Solids by Method 2540 G-2011	WG846916	1	02/04/16 13:53	02/04/16 14:03	KDW

⁷ Gl

⁸ Al

⁹ Sc

R23P079Q-POSTXCSSE20-SW6 L815477-18 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 11:24

Received date/time
02/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG846904	1	02/04/16 11:59	02/04/16 17:38	WBD
Total Solids by Method 2540 G-2011	WG846916	1	02/04/16 13:53	02/04/16 14:03	KDW



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.0		1	02/04/2016 13:13	WG846915

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.35	1	02/04/2016 16:22	WG846904
Lead	370		0.589	1	02/04/2016 16:22	WG846904

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.4		1	02/04/2016 13:13	WG846915

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.34	1	02/04/2016 16:37	WG846904
Lead	72.6		0.586	1	02/04/2016 16:37	WG846904

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.2		1	02/04/2016 13:13	WG846915

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.56	1	02/04/2016 16:40	WG846904
Lead	48.0		0.639	1	02/04/2016 16:40	WG846904

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.5		1	02/04/2016 13:13	WG846915

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	2.68		2.58	1	02/04/2016 16:49	WG846904
Lead	350		0.646	1	02/04/2016 16:49	WG846904

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.0		1	02/04/2016 13:13	WG846915

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	4.85		3.03	1	02/04/2016 16:52	WG846904
Lead	518		0.757	1	02/04/2016 16:52	WG846904

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	02/04/2016 13:13	WG846915

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.30	1	02/04/2016 16:55	WG846904
Lead	15.1		0.574	1	02/04/2016 16:55	WG846904

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.6		1	02/04/2016 13:13	WG846915

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.61	1	02/04/2016 16:58	WG846904
Lead	27.9		0.652	1	02/04/2016 16:58	WG846904

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.7		1	02/04/2016 13:13	WG846915

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.48	1	02/04/2016 17:01	WG846904
Lead	73.0		0.620	1	02/04/2016 17:01	WG846904

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	02/04/2016 14:03	WG846916

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.28	1	02/04/2016 17:04	WG846904
Lead	17.4		0.571	1	02/04/2016 17:04	WG846904

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.4		1	02/04/2016 14:03	WG846916

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.37	1	02/04/2016 17:07	WG846904
Lead	139		0.593	1	02/04/2016 17:07	WG846904

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.0		1	02/04/2016 14:03	WG846916

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.30	1	02/04/2016 17:10	WG846904
Lead	32.4		0.574	1	02/04/2016 17:10	WG846904

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.2		1	02/04/2016 14:03	WG846916

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.32	1	02/04/2016 17:14	WG846904
Lead	37.4		0.580	1	02/04/2016 17:14	WG846904

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.9		1	02/04/2016 14:03	WG846916

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.44	1	02/04/2016 17:17	WG846904
Lead	114		0.611	1	02/04/2016 17:17	WG846904

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Collected date/time: 02/02/16 11:11

L815477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.6		1	02/04/2016 14:03	WG846916

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	12.1		2.34	1	02/04/2016 17:26	WG846904
Lead	1350		0.584	1	02/04/2016 17:26	WG846904

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.9		1	02/04/2016 14:03	WG846916

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.36	1	02/04/2016 17:29	WG846904
Lead	23.9		0.589	1	02/04/2016 17:29	WG846904

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.5		1	02/04/2016 14:03	WG846916

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	22.0		2.34	1	02/04/2016 17:32	WG846904
Lead	170		0.584	1	02/04/2016 17:32	WG846904

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 02/02/16 11:20

L815477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.8		1	02/04/2016 14:03	WG846916

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.33	1	02/04/2016 17:35	WG846904
Lead	81.0		0.582	1	02/04/2016 17:35	WG846904

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Collected date/time: 02/02/16 11:24

L815477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.9		1	02/04/2016 14:03	WG846916

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.36	1	02/04/2016 17:38	WG846904
Lead	23.7		0.589	1	02/04/2016 17:38	WG846904

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 02/04/16 13:13

	MB Result	<u>MB Qualifier</u>	MB RDL
Analyte	%		%
Total Solids	0.00120		

L815477-02 Original Sample (OS) • Duplicate (DUP)

(OS) 02/04/16 13:13 • (DUP) 02/04/16 13:13

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.4	85.3	1	0.117		5

Laboratory Control Sample (LCS)

(LCS) 02/04/16 13:13

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/04/16 14:03

Analyte	MB Result %	MB Qualifier	MB RDL %
Total Solids	0.000700		

L815477-18 Original Sample (OS) • Duplicate (DUP)

(OS) 02/04/16 14:03 • (DUP) 02/04/16 14:03

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.9	85.3	1	0.491		5

Laboratory Control Sample (LCS)

(LCS) 02/04/16 14:03

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 02/04/16 16:13

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Antimony	ND		2.00
Lead	ND		0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/04/16 16:16 • (LCSD) 02/04/16 16:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	97.4	100	97	100	80-120			3	20
Lead	100	101	104	101	104	80-120			3	20

L815477-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/04/16 16:22 • (MS) 02/04/16 16:31 • (MSD) 02/04/16 16:34

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	100	1.85	81.6	83.9	80	82	1	75-125			3	20
Lead	100	314	415	439	101	125	1	75-125			5	20



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

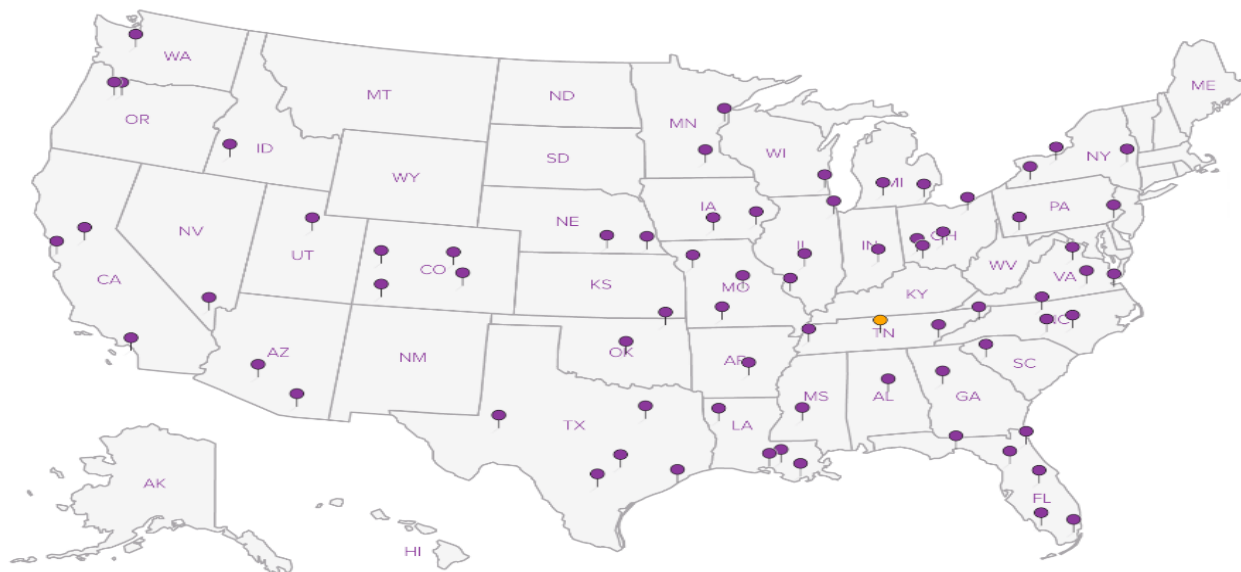
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Envirocon

Sample Delivery Group: L815482
Samples Received: 02/04/2016
Project Number: 1495001
Description: BBG RR23 Ft. McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



R23P079Q-BACK1 L815482-01 Solid

Collected by
Elizabeth MCollected date/time
02/02/16 15:00Received date/time
02/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Chlorinated Acid Herbicides (GC) by Method 8151	WG846990	1	02/05/16 14:38	02/05/16 21:33	KLM
Mercury by Method 7471A	WG850085	1	02/17/16 14:54	02/18/16 06:05	TRB
Metals (ICP) by Method 6010B	WG846984	1	02/04/16 13:42	02/05/16 19:13	RDS
Metals (ICP) by Method 6010B	WG846984	5	02/04/16 13:42	02/06/16 15:49	RDS
Metals (ICPMS) by Method 6020	WG849969	5	02/17/16 13:49	02/17/16 22:12	VSS
Pesticides (GC) by Method 8081	WG847047	1	02/04/16 21:30	02/05/16 21:21	ADF
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG847030	1	02/04/16 22:11	02/05/16 09:00	JF
Total Solids by Method 2540 G-2011	WG847476	1	02/06/16 12:46	02/06/16 12:56	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG846920	23.75	02/06/16 02:03	02/06/16 11:09	DWR

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	26.2		1	02/06/2016 12:56	WG847476

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.482		0.0764	1	02/18/2016 06:05	WG850085

⁶ Qc⁷ Gl⁸ Al⁹ Sc

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	184000		191	5	02/06/2016 15:49	WG846984
Antimony	ND		7.64	1	02/05/2016 19:13	WG846984
Arsenic	37.0		7.64	1	02/05/2016 19:13	WG846984
Barium	214		1.91	1	02/05/2016 19:13	WG846984
Beryllium	2.13		0.764	1	02/05/2016 19:13	WG846984
Cadmium	ND		1.91	1	02/05/2016 19:13	WG846984
Calcium	567		382	1	02/05/2016 19:13	WG846984
Chromium	126		3.82	1	02/05/2016 19:13	WG846984
Cobalt	22.9		3.82	1	02/05/2016 19:13	WG846984
Copper	59.1		7.64	1	02/05/2016 19:13	WG846984
Iron	116000		191	5	02/06/2016 15:49	WG846984
Lead	97.4		1.91	1	02/05/2016 19:13	WG846984
Magnesium	4130		382	1	02/05/2016 19:13	WG846984
Manganese	442		3.82	1	02/05/2016 19:13	WG846984
Nickel	73.3		7.64	1	02/05/2016 19:13	WG846984
Potassium	3250		382	1	02/05/2016 19:13	WG846984
Sodium	ND		382	1	02/05/2016 19:13	WG846984
Vanadium	251		7.64	1	02/05/2016 19:13	WG846984
Zinc	154		19.1	1	02/05/2016 19:13	WG846984

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Selenium	ND		1.91	5	02/17/2016 22:12	WG849969
Silver	ND		1.91	5	02/17/2016 22:12	WG849969
Thallium	ND		1.91	5	02/17/2016 22:12	WG849969

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		4.54	23.75	02/06/2016 11:09	WG846920
Acrylonitrile	ND		0.909	23.75	02/06/2016 11:09	WG846920
Benzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Bromobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Bromodichloromethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Bromoform	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Bromomethane	ND		0.454	23.75	02/06/2016 11:09	WG846920
n-Butylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
sec-Butylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
tert-Butylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Carbon tetrachloride	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Chlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Chlorodibromomethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Chloroethane	ND		0.454	23.75	02/06/2016 11:09	WG846920



Collected date/time: 02/02/16 15:00

L815482

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloroethyl vinyl ether	ND		4.54	23.75	02/06/2016 11:09	WG846920
Chloroform	ND		0.454	23.75	02/06/2016 11:09	WG846920
Chloromethane	ND		0.227	23.75	02/06/2016 11:09	WG846920
2-Chlorotoluene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
4-Chlorotoluene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2-Dibromo-3-Chloropropane	ND		0.454	23.75	02/06/2016 11:09	WG846920
1,2-Dibromoethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Dibromomethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2-Dichlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,3-Dichlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,4-Dichlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Dichlorodifluoromethane	ND		0.454	23.75	02/06/2016 11:09	WG846920
1,1-Dichloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2-Dichloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1-Dichloroethene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
cis-1,2-Dichloroethene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
trans-1,2-Dichloroethene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2-Dichloropropane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1-Dichloropropene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,3-Dichloropropane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
cis-1,3-Dichloropropene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
trans-1,3-Dichloropropene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
2,2-Dichloropropane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Di-isopropyl ether	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Ethylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Hexachloro-1,3-butadiene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Isopropylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
p-Isopropyltoluene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
2-Butanone (MEK)	ND		0.909	23.75	02/06/2016 11:09	WG846920
Methylene Chloride	ND		0.454	23.75	02/06/2016 11:09	WG846920
4-Methyl-2-pentanone (MIBK)	ND		0.909	23.75	02/06/2016 11:09	WG846920
Methyl tert-butyl ether	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Naphthalene	ND		0.454	23.75	02/06/2016 11:09	WG846920
n-Propylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Styrene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1,1,2-Tetrachloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1,2,2-Tetrachloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1,2-Trichlorotrifluoroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Tetrachloroethene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Toluene	ND		0.454	23.75	02/06/2016 11:09	WG846920
1,2,3-Trichlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2,4-Trichlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1,1-Trichloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1,2-Trichloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Trichloroethene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Trichlorofluoromethane	ND		0.454	23.75	02/06/2016 11:09	WG846920
1,2,3-Trichloropropane	ND		0.227	23.75	02/06/2016 11:09	WG846920
1,2,4-Trimethylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2,3-Trimethylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Vinyl chloride	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,3,5-Trimethylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Xylenes, Total	ND		0.272	23.75	02/06/2016 11:09	WG846920
(S) Toluene-d8	105		88.7-115		02/06/2016 11:09	WG846920
(S) Dibromofluoromethane	102		76.3-123		02/06/2016 11:09	WG846920
(S) 4-Bromofluorobenzene	96.0		69.7-129		02/06/2016 11:09	WG846920

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Chlorinated Acid Herbicides (GC) by Method 8151

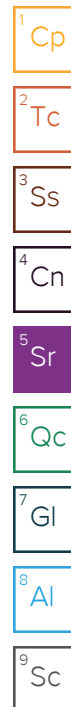
Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	ND		0.267	1	02/05/2016 21:33	WG846990
Dalapon	ND		3.05	1	02/05/2016 21:33	WG846990
2,4-DB	ND		0.267	1	02/05/2016 21:33	WG846990
Dicamba	ND		0.267	1	02/05/2016 21:33	WG846990
Dichloroprop	ND		0.267	1	02/05/2016 21:33	WG846990
Dinoseb	ND		0.267	1	02/05/2016 21:33	WG846990
MCPA	ND		24.8	1	02/05/2016 21:33	WG846990
MCPP	ND		24.8	1	02/05/2016 21:33	WG846990
2,4,5-T	ND		0.267	1	02/05/2016 21:33	WG846990
2,4,5-TP (Silvex)	ND		0.267	1	02/05/2016 21:33	WG846990
(S) 2,4-Dichlorophenyl Acetic Acid	55.0		23.5-129		02/05/2016 21:33	WG846990

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0764	1	02/05/2016 21:21	WG847047
Alpha BHC	ND		0.0764	1	02/05/2016 21:21	WG847047
Beta BHC	ND		0.0764	1	02/05/2016 21:21	WG847047
Delta BHC	ND		0.0764	1	02/05/2016 21:21	WG847047
Gamma BHC	ND		0.0764	1	02/05/2016 21:21	WG847047
Chlordane	ND		0.764	1	02/05/2016 21:21	WG847047
4,4-DDD	ND		0.0764	1	02/05/2016 21:21	WG847047
4,4-DDE	ND		0.0764	1	02/05/2016 21:21	WG847047
4,4-DDT	ND		0.0764	1	02/05/2016 21:21	WG847047
Dieldrin	ND		0.0764	1	02/05/2016 21:21	WG847047
Endosulfan I	ND		0.0764	1	02/05/2016 21:21	WG847047
Endosulfan II	ND		0.0764	1	02/05/2016 21:21	WG847047
Endosulfan sulfate	ND		0.0764	1	02/05/2016 21:21	WG847047
Endrin	ND		0.0764	1	02/05/2016 21:21	WG847047
Endrin aldehyde	ND		0.0764	1	02/05/2016 21:21	WG847047
Endrin ketone	ND		0.0764	1	02/05/2016 21:21	WG847047
Hexachlorobenzene	ND		0.0764	1	02/05/2016 21:21	WG847047
Heptachlor	ND	J4	0.0764	1	02/05/2016 21:21	WG847047
Heptachlor epoxide	ND		0.0764	1	02/05/2016 21:21	WG847047
Methoxychlor	ND		0.0764	1	02/05/2016 21:21	WG847047
Toxaphene	ND		1.53	1	02/05/2016 21:21	WG847047
(S) Decachlorobiphenyl	95.9		10.0-143		02/05/2016 21:21	WG847047
(S) Tetrachloro-m-xylene	107		29.2-144		02/05/2016 21:21	WG847047

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.126	1	02/05/2016 09:00	WG847030
Acenaphthylene	ND		0.126	1	02/05/2016 09:00	WG847030
Anthracene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzidine	ND		1.27	1	02/05/2016 09:00	WG847030
Benzo(a)anthracene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzo(b)fluoranthene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzo(k)fluoranthene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzo(g,h,i)perylene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzo(a)pyrene	ND		0.126	1	02/05/2016 09:00	WG847030
Bis(2-chlorethoxy)methane	ND		1.27	1	02/05/2016 09:00	WG847030
Bis(2-chloroethyl)ether	ND		1.27	1	02/05/2016 09:00	WG847030
Bis(2-chloroisopropyl)ether	ND		1.27	1	02/05/2016 09:00	WG847030
4-Bromophenyl-phenylether	ND		1.27	1	02/05/2016 09:00	WG847030





Collected date/time: 02/02/16 15:00

L815482

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloronaphthalene	ND		0.126	1	02/05/2016 09:00	WG847030
4-Chlorophenyl-phenylether	ND		1.27	1	02/05/2016 09:00	WG847030
Chrysene	ND		0.126	1	02/05/2016 09:00	WG847030
Dibenz(a,h)anthracene	ND		0.126	1	02/05/2016 09:00	WG847030
3,3-Dichlorobenzidine	ND		1.27	1	02/05/2016 09:00	WG847030
2,4-Dinitrotoluene	ND		1.27	1	02/05/2016 09:00	WG847030
2,6-Dinitrotoluene	ND		1.27	1	02/05/2016 09:00	WG847030
Fluoranthene	ND		0.126	1	02/05/2016 09:00	WG847030
Fluorene	ND		0.126	1	02/05/2016 09:00	WG847030
Hexachlorobenzene	ND		1.27	1	02/05/2016 09:00	WG847030
Hexachloro-1,3-butadiene	ND		1.27	1	02/05/2016 09:00	WG847030
Hexachlorocyclopentadiene	ND		1.27	1	02/05/2016 09:00	WG847030
Hexachloroethane	ND		1.27	1	02/05/2016 09:00	WG847030
Indeno(1,2,3-cd)pyrene	ND		0.126	1	02/05/2016 09:00	WG847030
Isophorone	ND		1.27	1	02/05/2016 09:00	WG847030
Naphthalene	ND		0.126	1	02/05/2016 09:00	WG847030
Nitrobenzene	ND		1.27	1	02/05/2016 09:00	WG847030
n-Nitrosodimethylamine	ND		1.27	1	02/05/2016 09:00	WG847030
n-Nitrosodiphenylamine	ND		1.27	1	02/05/2016 09:00	WG847030
n-Nitrosodi-n-propylamine	ND		1.27	1	02/05/2016 09:00	WG847030
Phenanthrene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzylbutyl phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Bis(2-ethylhexyl)phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Di-n-butyl phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Diethyl phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Dimethyl phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Di-n-octyl phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Pyrene	ND		0.126	1	02/05/2016 09:00	WG847030
1,2,4-Trichlorobenzene	ND		1.27	1	02/05/2016 09:00	WG847030
4-Chloro-3-methylphenol	ND		1.27	1	02/05/2016 09:00	WG847030
2-Chlorophenol	ND		1.27	1	02/05/2016 09:00	WG847030
2,4-Dichlorophenol	ND		1.27	1	02/05/2016 09:00	WG847030
2,4-Dimethylphenol	ND		1.27	1	02/05/2016 09:00	WG847030
4,6-Dinitro-2-methylphenol	ND		1.27	1	02/05/2016 09:00	WG847030
2,4-Dinitrophenol	ND		1.27	1	02/05/2016 09:00	WG847030
2-Nitrophenol	ND		1.27	1	02/05/2016 09:00	WG847030
4-Nitrophenol	ND		1.27	1	02/05/2016 09:00	WG847030
Pentachlorophenol	ND		1.27	1	02/05/2016 09:00	WG847030
Phenol	ND		1.27	1	02/05/2016 09:00	WG847030
2,4,6-Trichlorophenol	ND		1.27	1	02/05/2016 09:00	WG847030
(S) 2-Fluorophenol	64.7		21.1-116		02/05/2016 09:00	WG847030
(S) Phenol-d5	66.3		26.3-121		02/05/2016 09:00	WG847030
(S) Nitrobenzene-d5	59.7		21.9-129		02/05/2016 09:00	WG847030
(S) 2-Fluorobiphenyl	56.8		34.9-129		02/05/2016 09:00	WG847030
(S) 2,4,6-Tribromophenol	73.5		21.6-142		02/05/2016 09:00	WG847030
(S) p-Terphenyl-d14	44.9		21.5-128		02/05/2016 09:00	WG847030

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

[L815482-01](#)

Method Blank (MB)

(MB) 02/06/16 12:56

Analyte	MB Result %	<u>MB Qualifier</u>	MB RDL %
Total Solids	0.000600		

L815725-05 Original Sample (OS) • Duplicate (DUP)

(OS) 02/06/16 12:56 • (DUP) 02/06/16 12:56

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Total Solids	79.1	78.0	1	1.41		5

Laboratory Control Sample (LCS)

(LCS) 02/06/16 12:56

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/18/16 05:47

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Mercury	ND		0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/18/16 05:50 • (LCSD) 02/18/16 05:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.265	0.272	88	91	80-120			3	20

L818153-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/18/16 05:56 • (MS) 02/18/16 05:59 • (MSD) 02/18/16 06:02

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.00593	0.271	0.285	88	93	1	75-125			5	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/05/16 17:58

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Aluminum	ND		10.0
Antimony	ND		2.00
Arsenic	ND		2.00
Barium	ND		0.500
Beryllium	ND		0.200
Cadmium	ND		0.500
Calcium	ND		100
Chromium	ND		1.00
Cobalt	ND		1.00
Copper	ND		2.00
Iron	ND		10.0
Lead	ND		0.500
Magnesium	ND		100
Manganese	ND		1.00
Nickel	ND		2.00
Potassium	ND		100
Sodium	ND		100
Vanadium	ND		2.00
Zinc	ND		5.00

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 18:01 • (LCSD) 02/05/16 18:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aluminum	1000	1060	994	106	99	80-120			6	20
Antimony	100	110	104	110	104	80-120			6	20
Arsenic	100	106	99.7	106	100	80-120			6	20
Barium	100	108	101	108	101	80-120			6	20
Beryllium	100	106	100	106	100	80-120			6	20
Cadmium	100	109	102	109	102	80-120			6	20
Calcium	1000	1040	982	104	98	80-120			6	20
Chromium	100	105	99.0	105	99	80-120			6	20
Cobalt	100	106	99.0	106	99	80-120			7	20
Copper	100	107	100	107	100	80-120			7	20
Iron	1000	1020	965	102	96	80-120			6	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 18:01 • (LCSD) 02/05/16 18:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Lead	100	106	99.2	106	99	80-120			6	20
Magnesium	1000	999	954	100	95	80-120			5	20
Manganese	100	104	98.7	104	99	80-120			6	20
Nickel	100	104	97.6	104	98	80-120			6	20
Potassium	1000	1050	983	105	98	80-120			6	20
Sodium	1000	1070	1010	107	101	80-120			6	20
Vanadium	100	108	101	108	101	80-120			7	20
Zinc	100	101	94.3	101	94	80-120			6	20

L815299-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 18:07 • (MS) 02/05/16 18:16 • (MSD) 02/05/16 18:19

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	1000	31200	33900	32500	262	126	1	75-125	V	V	4	20
Antimony	100	0.292	49.2	49.8	49	50	1	75-125	J6	J6	1	20
Arsenic	100	12.5	110	104	97	92	1	75-125			5	20
Barium	100	106	209	211	103	105	1	75-125			1	20
Beryllium	100	1.05	102	99.3	101	98	1	75-125			2	20
Cadmium	100	0.305	105	102	105	102	1	75-125			3	20
Calcium	1000	10300	8810	8050	0	0	1	75-125	V	V	9	20
Chromium	100	34.1	138	125	104	90	1	75-125			10	20
Cobalt	100	7.59	114	113	107	106	1	75-125			1	20
Copper	100	21.4	117	114	96	92	1	75-125			3	20
Iron	1000	53400	28100	23500	0	0	1	75-125	V	V	18	20
Lead	100	38.2	149	151	111	113	1	75-125			2	20
Magnesium	1000	1550	2180	2110	63	55	1	75-125	J6	J6	4	20
Manganese	100	378	490	703	112	325	1	75-125		J3 J5	36	20
Nickel	100	19.5	123	119	103	99	1	75-125			3	20
Potassium	1000	1460	2470	2510	102	105	1	75-125			1	20
Sodium	1000	79.4	1070	1040	99	96	1	75-125			2	20
Vanadium	100	51.7	150	146	98	94	1	75-125			3	20
Zinc	100	73.3	165	164	92	91	1	75-125			1	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/17/16 21:28

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Selenium	ND		0.500
Silver	ND		0.500
Thallium	ND		0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/17/16 21:30 • (LCSD) 02/17/16 21:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Selenium	100	82.0	84.0	82	84	80-120			2	20
Silver	100	85.5	86.7	85	87	80-120			1	20
Thallium	100	82.8	84.8	83	85	80-120			2	20

L817509-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/17/16 21:44 • (MS) 02/17/16 21:55 • (MSD) 02/17/16 21:57

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Selenium	1.00	0.212	83.7	76.9	84	77	100	75-125			9	20
Silver	1.00	0.452	203	131	203	131	100	75-125	J5	J3 J5	43	20
Thallium	1.00	0.212	90.0	86.9	90	87	100	75-125			4	20



Method Blank (MB)

(MB) 02/06/16 02:27

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Acetone	ND		0.0500
Acrylonitrile	ND		0.0100
Benzene	ND		0.00100
Bromobenzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
n-Butylbenzene	ND		0.00100
sec-Butylbenzene	ND		0.00100
tert-Butylbenzene	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
2-Chloroethyl vinyl ether	ND		0.0500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
2-Chlorotoluene	ND		0.00100
4-Chlorotoluene	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
Dibromomethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
1,1-Dichloropropene	ND		0.00100
1,3-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100
trans-1,3-Dichloropropene	ND		0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 02/06/16 02:27

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
2,2-Dichloropropane	ND		0.00100
Di-isopropyl ether	ND		0.00100
Ethylbenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.00100
Isopropylbenzene	ND		0.00100
p-Isopropyltoluene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100
Naphthalene	ND		0.00500
n-Propylbenzene	ND		0.00100
Styrene	ND		0.00100
1,1,1,2-Tetrachloroethane	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
1,2,3-Trichloropropane	ND		0.00250
1,2,3-Trimethylbenzene	ND		0.00100
1,2,4-Trimethylbenzene	ND		0.00100
1,3,5-Trimethylbenzene	ND		0.00100
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	106		88.7-115
(S) Dibromofluoromethane	102		76.3-123
(S) 4-Bromofluorobenzene	103		69.7-129

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/06/16 00:38 • (LCSD) 02/06/16 01:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0885	0.0918	70.8	73.4	25.3-178			3.60	22.9
Acrylonitrile	0.125	0.128	0.141	102	113	57.8-143			9.86	20
Benzene	0.0250	0.0228	0.0241	91.1	96.5	72.6-120			5.76	20
Bromobenzene	0.0250	0.0231	0.0246	92.5	98.4	80.3-115			6.23	20
Bromodichloromethane	0.0250	0.0246	0.0267	98.2	107	75.3-119			8.23	20
Bromoform	0.0250	0.0228	0.0251	91.2	100	69.1-135			9.46	20
Bromomethane	0.0250	0.0228	0.0243	91.2	97.4	23.0-191			6.56	20
n-Butylbenzene	0.0250	0.0234	0.0254	93.7	102	74.2-134			8.09	20
sec-Butylbenzene	0.0250	0.0232	0.0248	92.6	99.3	77.8-129			6.98	20
tert-Butylbenzene	0.0250	0.0232	0.0250	92.9	100	77.2-129			7.38	20
Carbon tetrachloride	0.0250	0.0222	0.0238	88.9	95.2	69.4-129			6.75	20
Chlorobenzene	0.0250	0.0228	0.0241	91.1	96.4	78.9-122			5.67	20
Chlorodibromomethane	0.0250	0.0230	0.0247	92.1	98.8	76.4-126			6.95	20
Chloroethane	0.0250	0.0241	0.0255	96.2	102	47.2-147			5.84	20
2-Chloroethyl vinyl ether	0.125	0.0697	0.0789	55.7	63.1	16.7-162			12.4	23.7
Chloroform	0.0250	0.0244	0.0259	97.7	104	73.3-122			5.84	20
Chloromethane	0.0250	0.0210	0.0218	84.0	87.2	53.1-135			3.77	20
2-Chlorotoluene	0.0250	0.0227	0.0243	90.9	97.4	74.6-127			6.83	20
4-Chlorotoluene	0.0250	0.0239	0.0254	95.7	102	79.5-123			6.08	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0236	0.0279	94.5	112	64.9-131			16.8	20
1,2-Dibromoethane	0.0250	0.0232	0.0253	92.8	101	78.7-123			8.69	20
Dibromomethane	0.0250	0.0240	0.0268	96.1	107	78.5-117			11.0	20
1,2-Dichlorobenzene	0.0250	0.0234	0.0254	93.5	101	83.6-119			8.10	20
1,3-Dichlorobenzene	0.0250	0.0217	0.0231	86.9	92.4	75.9-129			6.11	20
1,4-Dichlorobenzene	0.0250	0.0226	0.0241	90.3	96.5	81.0-115			6.66	20
Dichlorodifluoromethane	0.0250	0.0229	0.0226	91.5	90.4	50.9-139			1.25	20
1,1-Dichloroethane	0.0250	0.0245	0.0262	98.1	105	71.7-125			6.64	20
1,2-Dichloroethane	0.0250	0.0255	0.0270	102	108	67.2-121			5.61	20
1,1-Dichloroethene	0.0250	0.0241	0.0263	96.4	105	60.6-133			8.79	20
cis-1,2-Dichloroethene	0.0250	0.0246	0.0260	98.2	104	76.1-121			5.65	20
trans-1,2-Dichloroethene	0.0250	0.0238	0.0245	95.0	98.0	70.7-124			3.05	20
1,2-Dichloropropane	0.0250	0.0242	0.0260	96.9	104	76.9-123			6.95	20
1,1-Dichloropropene	0.0250	0.0257	0.0268	103	107	71.2-126			3.93	20
1,3-Dichloropropane	0.0250	0.0240	0.0260	95.9	104	80.3-114			8.15	20
cis-1,3-Dichloropropene	0.0250	0.0253	0.0275	101	110	77.3-123			8.19	20
trans-1,3-Dichloropropene	0.0250	0.0255	0.0272	102	109	73.0-127			6.41	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/06/16 00:38 • (LCSD) 02/06/16 01:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,2-Dichloropropane	0.0250	0.0251	0.0272	100	109	61.9-132			8.17	20
Di-isopropyl ether	0.0250	0.0250	0.0261	100	104	67.2-131			4.13	20
Ethylbenzene	0.0250	0.0227	0.0243	90.8	97.3	78.6-124			6.91	20
Hexachloro-1,3-butadiene	0.0250	0.0228	0.0259	91.3	103	69.2-136			12.5	20
Isopropylbenzene	0.0250	0.0233	0.0249	93.0	99.7	79.4-126			6.96	20
p-Isopropyltoluene	0.0250	0.0240	0.0256	96.0	102	75.4-132			6.56	20
2-Butanone (MEK)	0.125	0.103	0.110	82.2	88.1	44.5-154			6.95	21.3
Methylene Chloride	0.0250	0.0243	0.0255	97.1	102	68.2-119			5.04	20
4-Methyl-2-pentanone (MIBK)	0.125	0.120	0.137	96.0	109	61.1-138			13.1	20
Methyl tert-butyl ether	0.0250	0.0250	0.0268	100	107	70.2-122			7.03	20
Naphthalene	0.0250	0.0241	0.0274	96.5	109	69.9-132			12.6	20
n-Propylbenzene	0.0250	0.0232	0.0247	92.6	98.8	80.2-124			6.47	20
Styrene	0.0250	0.0204	0.0222	81.4	88.7	79.4-124			8.50	20
1,1,1,2-Tetrachloroethane	0.0250	0.0229	0.0249	91.5	99.7	76.7-127			8.65	20
1,1,2,2-Tetrachloroethane	0.0250	0.0229	0.0255	91.7	102	78.8-124			10.7	20
Tetrachloroethene	0.0250	0.0217	0.0235	86.9	93.9	71.1-133			7.83	20
Toluene	0.0250	0.0227	0.0244	90.9	97.6	76.7-116			7.14	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0251	0.0261	100	104	62.6-138			3.88	20
1,2,3-Trichlorobenzene	0.0250	0.0246	0.0269	98.5	108	72.5-137			8.91	20
1,2,4-Trichlorobenzene	0.0250	0.0240	0.0261	96.0	104	74.0-137			8.46	20
1,1,1-Trichloroethane	0.0250	0.0245	0.0261	98.2	104	69.9-127			6.22	20
1,1,2-Trichloroethane	0.0250	0.0223	0.0246	89.3	98.6	81.9-119			9.86	20
Trichloroethene	0.0250	0.0223	0.0245	89.2	98.0	77.2-122			9.38	20
Trichlorofluoromethane	0.0250	0.0235	0.0247	94.1	98.8	51.5-151			4.89	20
1,2,3-Trichloropropane	0.0250	0.0236	0.0262	94.5	105	74.0-124			10.4	20
1,2,3-Trimethylbenzene	0.0250	0.0243	0.0260	97.4	104	79.4-118			6.76	20
1,2,4-Trimethylbenzene	0.0250	0.0237	0.0251	94.7	100	77.1-124			5.88	20
1,3,5-Trimethylbenzene	0.0250	0.0232	0.0247	92.6	98.9	79.0-125			6.56	20
Vinyl chloride	0.0250	0.0233	0.0244	93.2	97.6	58.4-134			4.65	20
Xylenes, Total	0.0750	0.0680	0.0729	90.7	97.2	78.1-123			6.90	20
(S) Toluene-d8				104	106	88.7-115				
(S) Dibromofluoromethane				102	102	76.3-123				
(S) 4-Bromofluorobenzene				100	102	69.7-129				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L815299-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/06/16 04:16 • (MS) 02/06/16 03:11 • (MSD) 02/06/16 03:32

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00300	0.426	0.425	67.7	67.6	5	10.0-130			0.200	31.5
Acrylonitrile	0.125	ND	0.578	0.605	92.5	96.9	5	39.3-152			4.62	27.2
Benzene	0.0250	ND	0.119	0.128	95.2	102	5	47.8-131			7.00	22.8
Bromobenzene	0.0250	ND	0.111	0.122	88.7	97.2	5	40.0-130			9.21	27.4
Bromodichloromethane	0.0250	ND	0.126	0.133	101	106	5	50.6-128			5.34	22.8
Bromoform	0.0250	ND	0.107	0.118	85.8	94.6	5	43.3-139			9.76	25.9
Bromomethane	0.0250	0.000734	0.123	0.133	97.6	106	5	5.00-189			8.29	26.7
n-Butylbenzene	0.0250	0.000465	0.117	0.121	93.0	96.8	5	23.6-146			3.95	39.2
sec-Butylbenzene	0.0250	0.000236	0.117	0.127	93.6	101	5	31.0-142			8.01	34.7
tert-Butylbenzene	0.0250	0.000201	0.122	0.132	97.1	106	5	36.9-142			8.53	31.7
Carbon tetrachloride	0.0250	ND	0.122	0.137	97.7	110	5	46.0-140			11.5	27.2
Chlorobenzene	0.0250	ND	0.114	0.125	91.0	99.9	5	44.1-134			9.30	25.7
Chlorodibromomethane	0.0250	ND	0.115	0.124	92.0	99.0	5	49.7-134			7.33	24
Chloroethane	0.0250	ND	0.131	0.141	104	112	5	5.00-164			7.36	28.4
2-Chloroethyl vinyl ether	0.125	ND	0.350	0.379	56.1	60.7	5	5.00-159			7.91	40
Chloroform	0.0250	ND	0.126	0.136	101	109	5	51.2-133			7.88	22.8
Chloromethane	0.0250	0.00569	0.118	0.128	90.1	98.1	5	31.4-141			8.11	24.6
2-Chlorotoluene	0.0250	ND	0.112	0.122	89.8	97.9	5	36.1-137			8.66	28.9
4-Chlorotoluene	0.0250	0.000208	0.117	0.128	93.5	102	5	35.4-137			8.68	29.8
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.112	0.117	89.6	93.5	5	40.4-138			4.28	30.8
1,2-Dibromoethane	0.0250	ND	0.111	0.121	88.8	97.0	5	50.2-133			8.81	23.6
Dibromomethane	0.0250	ND	0.122	0.128	97.9	102	5	52.4-128			4.23	23
1,2-Dichlorobenzene	0.0250	0.000248	0.112	0.119	89.3	95.2	5	34.6-139			6.39	29.9
1,3-Dichlorobenzene	0.0250	0.000217	0.102	0.112	81.7	89.3	5	28.4-142			8.88	31.2
1,4-Dichlorobenzene	0.0250	ND	0.108	0.116	86.2	93.1	5	35.0-133			7.68	31.1
Dichlorodifluoromethane	0.0250	ND	0.117	0.129	93.7	103	5	31.2-144			9.72	30.2
1,1-Dichloroethane	0.0250	ND	0.129	0.139	103	111	5	49.1-136			7.30	22.9
1,2-Dichloroethane	0.0250	ND	0.126	0.132	101	106	5	47.1-129			4.48	22.7
1,1-Dichloroethene	0.0250	ND	0.131	0.144	105	115	5	36.1-142			9.81	25.6
cis-1,2-Dichloroethene	0.0250	ND	0.125	0.135	99.7	108	5	50.6-133			8.33	23
trans-1,2-Dichloroethene	0.0250	ND	0.124	0.134	99.4	107	5	43.8-135			7.20	24.8
1,2-Dichloropropane	0.0250	ND	0.128	0.134	102	107	5	50.3-134			4.69	22.7
1,1-Dichloropropene	0.0250	ND	0.134	0.148	107	118	5	43.0-137			9.90	26.4
1,3-Dichloropropane	0.0250	ND	0.120	0.126	95.9	101	5	51.4-127			5.21	23.1
cis-1,3-Dichloropropene	0.0250	ND	0.127	0.135	102	108	5	48.4-134			5.95	23.6
trans-1,3-Dichloropropene	0.0250	ND	0.126	0.133	101	106	5	46.6-135			5.01	25.3

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L815299-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/06/16 04:16 • (MS) 02/06/16 03:11 • (MSD) 02/06/16 03:32

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,2-Dichloropropane	0.0250	ND	0.143	0.161	114	129	5	45.2-141			11.6	26.6
Di-isopropyl ether	0.0250	ND	0.126	0.133	101	106	5	46.7-140			5.01	23.5
Ethylbenzene	0.0250	ND	0.118	0.131	94.2	105	5	44.8-135			10.5	26.9
Hexachloro-1,3-butadiene	0.0250	0.000786	0.103	0.110	81.7	87.0	5	10.0-149			6.24	40
Isopropylbenzene	0.0250	ND	0.122	0.134	97.6	107	5	41.9-139			9.19	29.3
p-Isopropyltoluene	0.0250	0.000371	0.120	0.126	95.4	101	5	27.3-146			5.56	35.1
2-Butanone (MEK)	0.125	ND	0.495	0.494	79.2	79.0	5	23.9-170			0.270	28.3
Methylene Chloride	0.0250	0.000794	0.120	0.128	95.6	101	5	46.7-125			5.85	22.2
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.590	0.597	94.4	95.5	5	42.4-146			1.16	26.7
Methyl tert-butyl ether	0.0250	ND	0.123	0.128	98.8	102	5	50.4-131			3.44	24.8
Naphthalene	0.0250	0.00150	0.0994	0.110	78.4	87.0	5	18.4-145			10.3	34
n-Propylbenzene	0.0250	0.000313	0.117	0.127	93.7	101	5	35.2-139			7.65	31.9
Styrene	0.0250	ND	0.0899	0.107	71.9	85.7	5	39.7-137			17.5	28.2
1,1,1,2-Tetrachloroethane	0.0250	ND	0.118	0.129	94.7	103	5	48.8-136			8.54	25.5
1,1,2,2-Tetrachloroethane	0.0250	ND	0.111	0.116	88.9	93.2	5	45.7-140			4.69	26.4
Tetrachloroethene	0.0250	ND	0.115	0.124	92.0	99.3	5	37.7-140			7.57	29.2
Toluene	0.0250	0.000261	0.118	0.129	94.4	103	5	47.8-127			8.42	24.3
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.137	0.140	109	112	5	35.7-146			2.67	28.8
1,2,3-Trichlorobenzene	0.0250	0.00150	0.101	0.114	79.4	90.2	5	10.0-150			12.6	38.5
1,2,4-Trichlorobenzene	0.0250	0.000919	0.100	0.110	79.5	87.5	5	10.0-153			9.42	39.3
1,1,1-Trichloroethane	0.0250	ND	0.135	0.145	108	116	5	49.0-138			7.72	25.3
1,1,2-Trichloroethane	0.0250	ND	0.116	0.120	92.4	95.7	5	52.3-132			3.52	23.4
Trichloroethene	0.0250	ND	0.116	0.128	92.4	102	5	48.0-132			9.90	24.8
Trichlorofluoromethane	0.0250	ND	0.132	0.144	106	115	5	12.8-169			8.73	29.7
1,2,3-Trichloropropane	0.0250	ND	0.113	0.117	90.5	93.9	5	44.4-138			3.63	26.3
1,2,3-Trimethylbenzene	0.0250	0.000452	0.122	0.130	97.4	104	5	41.0-133			6.34	27.6
1,2,4-Trimethylbenzene	0.0250	0.000574	0.116	0.125	92.6	99.7	5	32.9-139			7.36	30.6
1,3,5-Trimethylbenzene	0.0250	0.000172	0.118	0.127	94.3	102	5	37.1-138			7.70	30.6
Vinyl chloride	0.0250	ND	0.125	0.137	99.6	110	5	32.0-146			9.71	26.3
Xylenes, Total	0.0750	ND	0.350	0.383	93.3	102	5	42.7-135			9.05	26.6
(S) Toluene-d8					105	105		88.7-115				
(S) Dibromofluoromethane					101	101		76.3-123				
(S) 4-Bromofluorobenzene					99.3	100		69.7-129				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/05/16 18:07

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
2,4-D	ND		0.0700
Dalapon	ND		0.800
2,4-DB	ND		0.0700
Dicamba	ND		0.0700
Dichloroprop	ND		0.0700
Dinoseb	ND		0.0700
MCPA	ND		6.50
MCPP	ND		6.50
2,4,5-T	ND		0.0700
2,4,5-TP (Silvex)	ND		0.0700
(S) 2,4-Dichlorophenyl Acetic Acid	68.6		23.5-129

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 18:20 • (LCSD) 02/05/16 18:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,4,5-T	0.1667	0.111	0.127	66.3	75.9	44.9-111			13.5	21.5
2,4,5-TP (Silvex)	0.1667	0.119	0.134	71.3	80.6	48.4-110			12.3	25.9
2,4-D	0.1667	0.0959	0.104	57.5	62.6	40.0-112			8.43	24.8
2,4-DB	0.1667	0.0875	0.132	52.5	79.3	33.8-126	J3		40.6	27.8
Dalapon	0.1667	ND	ND	63.8	69.4	36.7-119			8.37	28
Dicamba	0.1667	0.121	0.135	72.7	81.0	50.2-125			10.7	20
Dichloroprop	0.1667	0.120	0.139	72.2	83.5	39.9-99.0			14.5	20.1
Dinoseb	0.1667	0.0490	0.0303	29.4	18.2	15.6-109	J3		47.0	40
MCPA	16.666	8.55	8.57	51.3	51.4	34.7-110			0.290	31.7
MCPP	16.666	8.91	10.3	53.5	61.5	41.0-121			14.0	24.9
(S) 2,4-Dichlorophenyl Acetic Acid				67.4	73.9	23.5-129				

L815482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 21:33 • (MS) 02/05/16 21:46 • (MSD) 02/05/16 21:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4,5-T	0.1667	ND	0.113	0.110	67.8	66.1	1	26.5-114			2.51	36



L815482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 21:33 • (MS) 02/05/16 21:46 • (MSD) 02/05/16 21:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4,5-TP (Silvex)	0.1667	ND	0.118	0.112	70.7	67.3	1	29.5-111			4.89	37.7
2,4-D	0.1667	ND	0.104	0.101	62.1	60.3	1	14.9-129			2.88	40
2,4-DB	0.1667	ND	0.127	0.121	76.4	72.7	1	10.0-141			4.92	40
Dalapon	0.1667	ND	ND	ND	69.8	66.8	1	17.5-118			4.35	40
Dicamba	0.1667	ND	0.120	0.119	71.7	71.1	1	17.0-146			0.850	36.9
Dichloroprop	0.1667	ND	0.116	0.113	69.3	67.7	1	27.8-95.9			2.45	34.1
Dinoseb	0.1667	ND	0.0607	0.0621	36.4	37.2	1	10.0-119			2.31	40
MCPA	16.666	ND	7.91	8.30	47.5	49.8	1	14.3-134			4.73	40
MCPP	16.666	ND	7.74	7.00	46.4	42.0	1	10.0-147			10.1	40
(S) 2,4-Dichlorophenyl Acetic Acid					68.4	66.3		23.5-129				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 02/05/16 18:18

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Aldrin	ND		0.0200
Alpha BHC	ND		0.0200
Beta BHC	ND		0.0200
Delta BHC	ND		0.0200
Gamma BHC	ND		0.0200
4,4-DDD	ND		0.0200
4,4-DDE	ND		0.0200
4,4-DDT	ND		0.0200
Dieldrin	ND		0.0200
Endosulfan I	ND		0.0200
Endosulfan II	ND		0.0200
Endosulfan sulfate	ND		0.0200
Endrin	ND		0.0200
Endrin aldehyde	ND		0.0200
Endrin ketone	ND		0.0200
Heptachlor	ND		0.0200
Heptachlor epoxide	ND		0.0200
Hexachlorobenzene	ND		0.0200
Methoxychlor	ND		0.0200
Chlordane	ND		0.200
Toxaphene	ND		0.400
(S) Decachlorobiphenyl	89.5		10.0-143
(S) Tetrachloro-m-xylene	93.3		29.2-144

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 18:30 • (LCSD) 02/05/16 18:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0753	0.0761	113	114	65.8-124			1.07	20
Alpha BHC	0.0667	0.0700	0.0697	105	104	65.7-126			0.520	20
Beta BHC	0.0667	0.0730	0.0727	109	109	57.6-137			0.450	20
Delta BHC	0.0667	0.0720	0.0722	108	108	65.7-124			0.250	20
Gamma BHC	0.0667	0.0707	0.0704	106	106	64.5-121			0.320	20
4,4-DDD	0.0667	0.0773	0.0799	116	120	65.6-122			3.26	20
4,4-DDE	0.0667	0.0748	0.0769	112	115	61.9-132			2.76	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 18:30 • (LCSD) 02/05/16 18:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4,4-DDT	0.0667	0.0751	0.0781	113	117	57.6-125			3.94	20
Dieldrin	0.0667	0.0777	0.0797	117	119	64.1-122			2.54	20
Endosulfan I	0.0667	0.0772	0.0782	116	117	62.0-121			1.28	20
Endosulfan II	0.0667	0.0769	0.0783	115	117	64.2-117			1.88	20
Endosulfan sulfate	0.0667	0.0775	0.0792	116	119	58.3-128			2.14	20
Endrin	0.0667	0.0751	0.0766	113	115	53.6-127			2.02	20
Endrin aldehyde	0.0667	0.0696	0.0714	104	107	37.4-130			2.53	20
Endrin ketone	0.0667	0.0786	0.0803	118	120	63.0-121			2.12	20
Heptachlor	0.0667	0.0804	0.0809	121	121	66.4-118	J4	J4	0.620	20
Heptachlor epoxide	0.0667	0.0750	0.0762	112	114	60.6-132			1.57	20
Hexachlorobenzene	0.0667	0.0715	0.0709	107	106	57.6-131			0.870	20
Methoxychlor	0.0667	0.0813	0.0850	122	128	54.8-131			4.52	20
(S) Decachlorobiphenyl				90.4	99.0	10.0-143				
(S) Tetrachloro-m-xylene				99.0	103	29.2-144				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L814777-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 19:31 • (MS) 02/05/16 19:44 • (MSD) 02/05/16 19:56

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	ND	0.0647	0.0732	97.0	110	1	20.2-150			12.3	20
Alpha BHC	0.0667	ND	0.0609	0.0683	91.3	102	1	35.3-155			11.4	20
Beta BHC	0.0667	ND	0.0629	0.0702	94.3	105	1	30.4-160			11.0	20
Delta BHC	0.0667	ND	0.0608	0.0684	91.2	103	1	27.8-160			11.7	20
Gamma BHC	0.0667	ND	0.0611	0.0686	91.5	103	1	32.6-149			11.6	20
4,4-DDD	0.0667	ND	0.0658	0.0750	98.6	112	1	33.0-145			13.1	20
4,4-DDE	0.0667	0.00401	0.0817	0.0851	116	121	1	26.3-151			4.03	20
4,4-DDT	0.0667	0.00228	0.0687	0.0770	99.6	112	1	11.8-145			11.3	23.8
Dieldrin	0.0667	ND	0.0698	0.0778	105	117	1	24.8-149			10.9	20
Endosulfan I	0.0667	ND	0.0637	0.0725	95.5	109	1	20.7-152			13.0	20
Endosulfan II	0.0667	ND	0.0673	0.0751	101	113	1	22.1-150			10.9	20
Endosulfan sulfate	0.0667	ND	0.0689	0.0759	103	114	1	24.6-151			9.55	21.5
Endrin	0.0667	ND	0.0653	0.0741	97.8	111	1	27.3-149			12.7	21.2
Endrin aldehyde	0.0667	ND	0.0602	0.0684	90.3	102	1	11.0-157			12.6	20
Endrin ketone	0.0667	ND	0.0667	0.0754	100	113	1	28.5-148			12.3	20
Heptachlor	0.0667	ND	0.0691	0.0787	104	118	1	26.7-144			13.0	20



L814777-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 19:31 • (MS) 02/05/16 19:44 • (MSD) 02/05/16 19:56

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Heptachlor epoxide	0.0667	ND	0.0641	0.0719	96.2	108	1	25.2-155			11.5	20
Hexachlorobenzene	0.0667	ND	0.0625	0.0695	93.7	104	1	19.0-156			10.6	20
Methoxychlor	0.0667	ND	0.0719	0.0815	108	122	1	10.0-165			12.4	25.4
(S) Decachlorobiphenyl					74.8	90.0		10.0-143				
(S) Tetrachloro-m-xylene					91.0	104		29.2-144				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/05/16 03:18

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Acenaphthene	ND		0.0330
Acenaphthylene	ND		0.0330
Anthracene	ND		0.0330
Benzidine	ND		0.333
Benzo(a)anthracene	ND		0.0330
Benzo(b)fluoranthene	ND		0.0330
Benzo(k)fluoranthene	ND		0.0330
Benzo(g,h,i)perylene	ND		0.0330
Benzo(a)pyrene	ND		0.0330
Bis(2-chlorethoxy)methane	ND		0.333
Bis(2-chloroethyl)ether	ND		0.333
Bis(2-chloroisopropyl)ether	ND		0.333
4-Bromophenyl-phenylether	ND		0.333
2-Chloronaphthalene	ND		0.0330
4-Chlorophenyl-phenylether	ND		0.333
Chrysene	ND		0.0330
Dibenz(a,h)anthracene	ND		0.0330
3,3-Dichlorobenzidine	ND		0.333
2,4-Dinitrotoluene	ND		0.333
2,6-Dinitrotoluene	ND		0.333
Fluoranthene	ND		0.0330
Fluorene	ND		0.0330
Hexachlorobenzene	ND		0.333
Hexachloro-1,3-butadiene	ND		0.333
Hexachlorocyclopentadiene	ND		0.333
Hexachloroethane	ND		0.333
Indeno(1,2,3-cd)pyrene	ND		0.0330
Isophorone	ND		0.333
Naphthalene	ND		0.0330
Nitrobenzene	ND		0.333
n-Nitrosodimethylamine	ND		0.333
n-Nitrosodiphenylamine	ND		0.333
n-Nitrosodi-n-propylamine	ND		0.333
Phenanthrene	ND		0.0330
Benzylbutyl phthalate	ND		0.333
Bis(2-ethylhexyl)phthalate	ND		0.333

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) 02/05/16 03:18

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Di-n-butyl phthalate	ND		0.333
Diethyl phthalate	ND		0.333
Dimethyl phthalate	ND		0.333
Di-n-octyl phthalate	ND		0.333
Pyrene	ND		0.0330
1,2,4-Trichlorobenzene	ND		0.333
4-Chloro-3-methylphenol	ND		0.333
2-Chlorophenol	ND		0.333
2,4-Dichlorophenol	ND		0.333
2,4-Dimethylphenol	ND		0.333
4,6-Dinitro-2-methylphenol	ND		0.333
2,4-Dinitrophenol	ND		0.333
2-Nitrophenol	ND		0.333
4-Nitrophenol	ND		0.333
Pentachlorophenol	ND		0.333
Phenol	ND		0.333
2,4,6-Trichlorophenol	ND		0.333
(S) Nitrobenzene-d5	51.3		21.9-129
(S) 2-Fluorobiphenyl	53.4		34.9-129
(S) p-Terphenyl-d14	62.2		21.5-128
(S) Phenol-d5	58.5		26.3-121
(S) 2-Fluorophenol	54.5		21.1-116
(S) 2,4,6-Tribromophenol	60.9		21.6-142

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 02:32 • (LCSD) 02/05/16 02:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	0.409	0.377	61.3	56.4	48.9-107			8.26	20
Acenaphthylene	0.667	0.424	0.384	63.6	57.5	49.2-111			10.1	20
Anthracene	0.667	0.437	0.379	65.6	56.8	52.0-112			14.4	20
Benzidine	0.667	0.0995	0.0713	14.9	10.7	0.000-48.0			33.0	40
Benzo(a)anthracene	0.667	0.433	0.390	64.9	58.5	52.3-106			10.5	20
Benzo(b)fluoranthene	0.667	0.431	0.391	64.6	58.6	51.3-106			9.69	20
Benzo(k)fluoranthene	0.667	0.426	0.396	63.9	59.3	52.9-107			7.52	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 02:32 • (LCSD) 02/05/16 02:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(g,h,i)perylene	0.667	0.446	0.436	66.8	65.4	45.8-108			2.17	20
Benzo(a)pyrene	0.667	0.430	0.403	64.4	60.5	51.9-106			6.34	20
Bis(2-chlorethoxy)methane	0.667	0.409	0.366	61.3	54.9	44.9-108			11.1	20
Bis(2-chloroethyl)ether	0.667	0.381	0.336	57.2	50.3	32.5-112			12.7	26
Bis(2-chloroisopropyl)ether	0.667	0.389	0.348	58.3	52.2	40.4-99.0			11.0	20.7
4-Bromophenyl-phenylether	0.667	0.424	0.369	63.6	55.3	51.4-110			13.9	20
2-Chloronaphthalene	0.667	0.418	0.379	62.7	56.8	47.1-105			9.95	20
4-Chlorophenyl-phenylether	0.667	0.407	0.363	61.0	54.4	48.1-108			11.5	20
Chrysene	0.667	0.407	0.368	61.0	55.1	54.4-110			10.2	20
Dibenz(a,h)anthracene	0.667	0.451	0.421	67.6	63.2	45.7-111			6.71	20
3,3-Dichlorobenzidine	0.667	0.340	0.296	51.0	44.3	21.0-101			14.0	22
2,4-Dinitrotoluene	0.667	0.413	0.369	61.9	55.3	53.0-112			11.3	20
2,6-Dinitrotoluene	0.667	0.417	0.381	62.5	57.1	51.6-110			8.99	20
Fluoranthene	0.667	0.422	0.372	63.3	55.8	53.7-110			12.5	20
Fluorene	0.667	0.396	0.360	59.4	53.9	51.1-109			9.64	20
Hexachlorobenzene	0.667	0.461	0.407	69.2	61.0	43.2-104			12.6	20.1
Hexachloro-1,3-butadiene	0.667	0.343	0.301	51.4	45.1	41.5-112			13.1	20
Hexachlorocyclopentadiene	0.667	0.253	0.232	38.0	34.8	13.5-123			8.77	20.7
Hexachloroethane	0.667	0.342	0.290	51.3	43.5	36.2-103			16.4	22.7
Indeno(1,2,3-cd)pyrene	0.667	0.460	0.456	68.9	68.3	47.5-109			0.840	20
Isophorone	0.667	0.448	0.399	67.2	59.9	28.8-104			11.5	20
Naphthalene	0.667	0.386	0.343	57.9	51.5	43.4-103			11.7	20
Nitrobenzene	0.667	0.380	0.351	57.0	52.7	40.7-109			7.91	21
n-Nitrosodimethylamine	0.667	0.327	0.274	49.0	41.1	18.1-122			17.6	23.5
n-Nitrosodiphenylamine	0.667	0.418	0.367	62.7	55.0	48.8-107			13.2	20
n-Nitrosodi-n-propylamine	0.667	0.416	0.381	62.3	57.2	43.3-109			8.58	20
Phenanthrene	0.667	0.427	0.369	64.0	55.4	51.6-107			14.4	20
Benzylbutyl phthalate	0.667	0.417	0.371	62.4	55.7	47.5-115			11.5	20
Bis(2-ethylhexyl)phthalate	0.667	0.408	0.373	61.2	55.9	48.1-116			9.16	20.5
Di-n-butyl phthalate	0.667	0.414	0.366	62.1	54.9	49.7-113			12.2	20
Diethyl phthalate	0.667	0.400	0.362	59.9	54.3	52.0-112			9.91	20
Dimethyl phthalate	0.667	0.411	0.370	61.7	55.5	51.4-108			10.5	20
Di-n-octyl phthalate	0.667	0.406	0.365	60.9	54.7	49.6-112			10.8	22
Pyrene	0.667	0.429	0.378	64.4	56.6	47.1-108			12.8	20
1,2,4-Trichlorobenzene	0.667	0.354	0.319	53.1	47.8	39.8-100			10.4	20
4-Chloro-3-methylphenol	0.667	0.431	0.388	64.6	58.1	51.1-113			10.6	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 02:32 • (LCSD) 02/05/16 02:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Chlorophenol	0.667	0.380	0.329	57.0	49.3	40.8-103			14.5	20
2,4-Dichlorophenol	0.667	0.396	0.342	59.4	51.3	46.2-109			14.6	20
2,4-Dimethylphenol	0.667	0.389	0.345	58.3	51.8	42.2-110			11.8	20
4,6-Dinitro-2-methylphenol	0.667	0.463	0.377	69.5	56.5	23.1-119			20.6	23.7
2,4-Dinitrophenol	0.667	0.263	0.217	39.5	32.5	10.0-105			19.3	36.5
2-Nitrophenol	0.667	0.403	0.345	60.3	51.8	44.2-113			15.3	20.9
4-Nitrophenol	0.667	0.397	0.368	59.5	55.2	34.8-109			7.38	20
Pentachlorophenol	0.667	0.483	0.398	72.5	59.6	16.2-102			19.5	22.9
Phenol	0.667	0.433	0.378	64.9	56.7	41.5-106			13.4	20
2,4,6-Trichlorophenol	0.667	0.414	0.362	62.0	54.2	44.4-108			13.5	20
(S) Nitrobenzene-d5				55.9	49.1	21.9-129				
(S) 2-Fluorobiphenyl				59.0	51.3	34.9-129				
(S) p-Terphenyl-d14				59.6	53.5	21.5-128				
(S) Phenol-d5				64.2	53.8	26.3-121				
(S) 2-Fluorophenol				59.2	49.0	21.1-116				
(S) 2,4,6-Tribromophenol				70.6	61.6	21.6-142				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L815482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 09:00 • (MS) 02/05/16 09:23 • (MSD) 02/05/16 09:46

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	ND	0.472	0.414	70.8	62.1	1	32.2-134			13.1	27.3
Acenaphthylene	0.667	ND	0.491	0.434	73.6	65.1	1	38.7-129			12.2	25.9
Anthracene	0.667	ND	0.458	0.470	68.6	70.5	1	32.3-137			2.75	28.4
Benzidine	0.667	ND	ND	ND	8.91	8.98	1	0.000-49.9			0.790	40
Benzo(a)anthracene	0.667	ND	0.467	0.483	70.1	72.4	1	33.3-124			3.25	29
Benzo(b)fluoranthene	0.667	ND	0.448	0.478	67.2	71.7	1	23.3-133			6.45	30.3
Benzo(k)fluoranthene	0.667	ND	0.471	0.494	70.6	74.0	1	31.0-129			4.81	26.7
Benzo(g,h,i)perylene	0.667	ND	0.454	0.530	68.0	79.5	1	10.0-127			15.6	31.9
Benzo(a)pyrene	0.667	ND	0.460	0.501	69.0	75.1	1	28.2-128			8.49	28.4
Bis(2-chlorethoxy)methane	0.667	ND	0.451	0.451	67.6	67.6	1	35.0-132			0.0200	26.1
Bis(2-chloroethyl)ether	0.667	ND	0.452	0.465	67.7	69.8	1	28.8-128			2.95	33.6
Bis(2-chloroisopropyl)ether	0.667	ND	0.468	0.454	70.1	68.0	1	31.8-118			3.06	31.7
4-Bromophenyl-phenylether	0.667	ND	0.460	0.467	68.9	70.0	1	39.0-130			1.60	26
2-Chloronaphthalene	0.667	ND	0.486	0.425	72.9	63.7	1	37.5-123			13.4	26.5

L815482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 09:00 • (MS) 02/05/16 09:23 • (MSD) 02/05/16 09:46

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.667	ND	0.471	0.421	70.6	63.1	1	37.9-123			11.3	25.9
Chrysene	0.667	ND	0.448	0.461	67.1	69.2	1	36.3-129			3.06	28
Dibenz(a,h)anthracene	0.667	ND	0.463	0.505	69.3	75.7	1	10.5-128			8.77	29.5
3,3-Dichlorobenzidine	0.667	ND	0.245	0.242	36.7	36.3	1	10.0-129			1.13	40
2,4-Dinitrotoluene	0.667	ND	0.479	0.421	71.8	63.1	1	27.8-147			12.8	29.7
2,6-Dinitrotoluene	0.667	ND	0.476	0.425	71.4	63.7	1	36.5-137			11.4	29.7
Fluoranthene	0.667	ND	0.463	0.462	69.3	69.3	1	27.9-138			0.0100	26.9
Fluorene	0.667	ND	0.452	0.409	67.7	61.3	1	34.0-133			10.0	27.1
Hexachlorobenzene	0.667	ND	0.492	0.514	73.8	77.1	1	34.4-116			4.32	25.4
Hexachloro-1,3-butadiene	0.667	ND	0.399	0.402	59.9	60.3	1	36.5-125			0.730	29.7
Hexachlorocyclopentadiene	0.667	ND	0.172	0.146	25.8	21.9	1	10.0-124			16.3	37.5
Hexachloroethane	0.667	ND	0.405	0.423	60.7	63.5	1	11.3-143			4.45	31.9
Indeno(1,2,3-cd)pyrene	0.667	ND	0.505	0.521	75.7	78.1	1	10.0-128			3.16	31.5
Isophorone	0.667	ND	0.488	0.492	73.2	73.7	1	25.7-116			0.700	27.7
Naphthalene	0.667	ND	0.446	0.443	66.9	66.4	1	36.4-121			0.850	27.2
Nitrobenzene	0.667	ND	0.454	0.449	68.0	67.4	1	30.9-134			0.990	27.8
n-Nitrosodimethylamine	0.667	ND	0.371	0.393	55.7	58.9	1	19.2-127			5.68	32
n-Nitrosodiphenylamine	0.667	ND	0.435	0.446	65.2	66.9	1	26.8-133			2.47	25.9
n-Nitrosodi-n-propylamine	0.667	ND	0.464	0.483	69.6	72.4	1	33.0-134			3.98	28.2
Phenanthrene	0.667	ND	0.455	0.463	68.3	69.4	1	30.8-137			1.60	26.5
Benzylbutyl phthalate	0.667	ND	0.442	0.454	66.3	68.0	1	33.4-128			2.57	28.5
Bis(2-ethylhexyl)phthalate	0.667	ND	0.422	0.437	63.3	65.5	1	21.8-141			3.42	35.2
Di-n-butyl phthalate	0.667	ND	0.439	0.451	65.8	67.6	1	32.2-133			2.69	25.9
Diethyl phthalate	0.667	ND	0.457	0.410	68.6	61.4	1	39.4-136			11.0	25.5
Dimethyl phthalate	0.667	ND	0.472	0.424	70.8	63.5	1	35.8-137			10.9	25.4
Di-n-octyl phthalate	0.667	ND	0.422	0.443	63.3	66.4	1	28.5-128			4.76	32.5
Pyrene	0.667	ND	0.450	0.464	67.4	69.6	1	24.1-130			3.10	29.9
1,2,4-Trichlorobenzene	0.667	ND	0.428	0.419	64.2	62.9	1	36.5-114			2.04	28.4
4-Chloro-3-methylphenol	0.667	ND	0.474	0.476	71.1	71.4	1	27.0-154			0.410	26.6
2-Chlorophenol	0.667	ND	0.452	0.456	67.7	68.4	1	33.2-121			1.00	29.3
2,4-Dichlorophenol	0.667	ND	0.444	0.442	66.5	66.3	1	34.8-134			0.370	27.3
2,4-Dimethylphenol	0.667	ND	0.459	0.444	68.9	66.6	1	12.3-149			3.38	32.3
4,6-Dinitro-2-methylphenol	0.667	ND	0.469	0.499	70.3	74.8	1	10.0-144			6.22	32.7
2,4-Dinitrophenol	0.667	ND	0.379	0.350	56.8	52.4	1	10.0-121			8.00	39.4
2-Nitrophenol	0.667	ND	0.456	0.452	68.3	67.8	1	29.5-144			0.760	29.9
4-Nitrophenol	0.667	ND	0.483	0.426	72.4	63.9	1	20.0-133			12.5	30.2

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L815482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 09:00 • (MS) 02/05/16 09:23 • (MSD) 02/05/16 09:46

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Pentachlorophenol	0.667	ND	0.576	0.583	86.4	87.4	1	10.0-139			1.16	28.3
Phenol	0.667	ND	0.492	0.504	73.8	75.5	1	25.1-130			2.39	29.6
2,4,6-Trichlorophenol	0.667	ND	0.483	0.426	72.4	63.9	1	33.8-133			12.4	28.1
(S) Nitrobenzene-d5					63.0	62.3		21.9-129				
(S) 2-Fluorobiphenyl					65.6	58.3		34.9-129				
(S) p-Terphenyl-d14					62.3	63.4		21.5-128				
(S) Phenol-d5					69.7	71.6		26.3-121				
(S) 2-Fluorophenol					68.2	69.1		21.1-116				
(S) 2,4,6-Tribromophenol					80.4	80.9		21.6-142				

1Cp

2Tc

3Ss

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Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

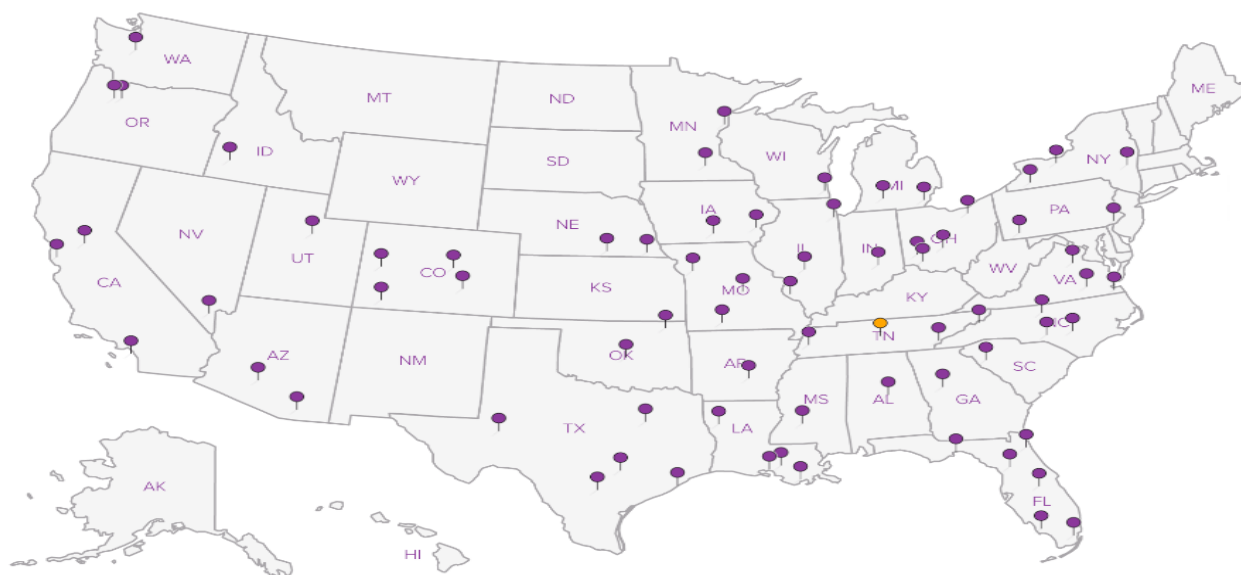
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Envirocon

Sample Delivery Group: L815482
Samples Received: 02/04/2016
Project Number: 1495001
Description: BBG RR23 Ft. McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



¹Cp: Cover Page	1
²Tc: Table of Contents	2
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⁴Cn: Case Narrative	4
⁵Sr: Sample Results	5
R23P079Q-BACK1 L815482-01	5
⁶Qc: Quality Control Summary	9
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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



R23P079Q-BACK1 L815482-01 Solid

Collected by
Elizabeth MCollected date/time
02/02/16 15:00Received date/time
02/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Chlorinated Acid Herbicides (GC) by Method 8151	WG846990	1	02/05/16 14:38	02/05/16 21:33	KLM
Metals (ICP) by Method 6010B	WG846984	1	02/04/16 13:42	02/05/16 19:13	WBD
Metals (ICP) by Method 6010B	WG846984	5	02/04/16 13:42	02/06/16 15:49	WBD
Pesticides (GC) by Method 8081	WG847047	1	02/04/16 21:30	02/05/16 21:21	ADF
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG847030	1	02/04/16 22:11	02/05/16 09:00	JF
Total Solids by Method 2540 G-2011	WG847476	1	02/06/16 12:46	02/06/16 12:56	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG846920	23.75	02/06/16 02:03	02/06/16 11:09	DWR

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

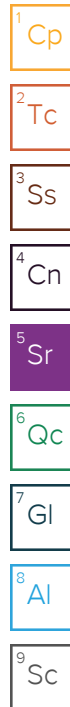
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	26.2		1	02/06/2016 12:56	WG847476

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aluminum	184000		191	5	02/06/2016 15:49	WG846984
Antimony	ND		7.64	1	02/05/2016 19:13	WG846984
Arsenic	37.0		7.64	1	02/05/2016 19:13	WG846984
Barium	214		1.91	1	02/05/2016 19:13	WG846984
Beryllium	2.13		0.764	1	02/05/2016 19:13	WG846984
Cadmium	ND		1.91	1	02/05/2016 19:13	WG846984
Calcium	567		382	1	02/05/2016 19:13	WG846984
Chromium	126		3.82	1	02/05/2016 19:13	WG846984
Cobalt	22.9		3.82	1	02/05/2016 19:13	WG846984
Copper	59.1		7.64	1	02/05/2016 19:13	WG846984

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		4.54	23.75	02/06/2016 11:09	WG846920
Acrylonitrile	ND		0.909	23.75	02/06/2016 11:09	WG846920
Benzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Bromobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Bromodichloromethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Bromoform	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Bromomethane	ND		0.454	23.75	02/06/2016 11:09	WG846920
n-Butylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
sec-Butylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
tert-Butylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Carbon tetrachloride	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Chlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Chlorodibromomethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Chloroethane	ND		0.454	23.75	02/06/2016 11:09	WG846920
2-Chloroethyl vinyl ether	ND		4.54	23.75	02/06/2016 11:09	WG846920
Chloroform	ND		0.454	23.75	02/06/2016 11:09	WG846920
Chloromethane	ND		0.227	23.75	02/06/2016 11:09	WG846920
2-Chlorotoluene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
4-Chlorotoluene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2-Dibromo-3-Chloropropane	ND		0.454	23.75	02/06/2016 11:09	WG846920
1,2-Dibromoethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Dibromomethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2-Dichlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,3-Dichlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,4-Dichlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Dichlorodifluoromethane	ND		0.454	23.75	02/06/2016 11:09	WG846920
1,1-Dichloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2-Dichloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1-Dichloroethene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
cis-1,2-Dichloroethene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
trans-1,2-Dichloroethene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2-Dichloropropane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1-Dichloropropene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,3-Dichloropropane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
cis-1,3-Dichloropropene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
trans-1,3-Dichloropropene	ND		0.0909	23.75	02/06/2016 11:09	WG846920





Collected date/time: 02/02/16 15:00

L815482

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,2-Dichloropropane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Di-isopropyl ether	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Ethylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Hexachloro-1,3-butadiene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Isopropylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
p-Isopropyltoluene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
2-Butanone (MEK)	ND		0.909	23.75	02/06/2016 11:09	WG846920
Methylene Chloride	ND		0.454	23.75	02/06/2016 11:09	WG846920
4-Methyl-2-pentanone (MIBK)	ND		0.909	23.75	02/06/2016 11:09	WG846920
Methyl tert-butyl ether	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Naphthalene	ND		0.454	23.75	02/06/2016 11:09	WG846920
n-Propylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Styrene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1,1,2-Tetrachloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1,2,2-Tetrachloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1,2-Trichlorotrifluoroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Tetrachloroethene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Toluene	ND		0.454	23.75	02/06/2016 11:09	WG846920
1,2,3-Trichlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2,4-Trichlorobenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1,1-Trichloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,1,2-Trichloroethane	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Trichloroethene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Trichlorofluoromethane	ND		0.454	23.75	02/06/2016 11:09	WG846920
1,2,3-Trichloropropane	ND		0.227	23.75	02/06/2016 11:09	WG846920
1,2,4-Trimethylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,2,3-Trimethylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Vinyl chloride	ND		0.0909	23.75	02/06/2016 11:09	WG846920
1,3,5-Trimethylbenzene	ND		0.0909	23.75	02/06/2016 11:09	WG846920
Xylenes, Total	ND		0.272	23.75	02/06/2016 11:09	WG846920
(S) Toluene-d8	105		88.7-115		02/06/2016 11:09	WG846920
(S) Dibromofluoromethane	102		76.3-123		02/06/2016 11:09	WG846920
(S) 4-Bromofluorobenzene	96.0		69.7-129		02/06/2016 11:09	WG846920

1 Cp
2 Tc
3 Ss
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5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Chlorinated Acid Herbicides (GC) by Method 8151

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	ND		0.267	1	02/05/2016 21:33	WG846990
Dalapon	ND		3.05	1	02/05/2016 21:33	WG846990
2,4-DB	ND		0.267	1	02/05/2016 21:33	WG846990
Dicamba	ND		0.267	1	02/05/2016 21:33	WG846990
Dichloroprop	ND		0.267	1	02/05/2016 21:33	WG846990
Dinoseb	ND		0.267	1	02/05/2016 21:33	WG846990
MCPA	ND		24.8	1	02/05/2016 21:33	WG846990
MCPP	ND		24.8	1	02/05/2016 21:33	WG846990
2,4,5-T	ND		0.267	1	02/05/2016 21:33	WG846990
2,4,5-TP (Silvex)	ND		0.267	1	02/05/2016 21:33	WG846990
(S) 2,4-Dichlorophenyl Acetic Acid	55.0		23.5-129		02/05/2016 21:33	WG846990



Collected date/time: 02/02/16 15:00

L815482

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0764	1	02/05/2016 21:21	WG847047
Alpha BHC	ND		0.0764	1	02/05/2016 21:21	WG847047
Beta BHC	ND		0.0764	1	02/05/2016 21:21	WG847047
Delta BHC	ND		0.0764	1	02/05/2016 21:21	WG847047
Gamma BHC	ND		0.0764	1	02/05/2016 21:21	WG847047
Chlordane	ND		0.764	1	02/05/2016 21:21	WG847047
4,4-DDD	ND		0.0764	1	02/05/2016 21:21	WG847047
4,4-DDE	ND		0.0764	1	02/05/2016 21:21	WG847047
4,4-DDT	ND		0.0764	1	02/05/2016 21:21	WG847047
Dieldrin	ND		0.0764	1	02/05/2016 21:21	WG847047
Endosulfan I	ND		0.0764	1	02/05/2016 21:21	WG847047
Endosulfan II	ND		0.0764	1	02/05/2016 21:21	WG847047
Endosulfan sulfate	ND		0.0764	1	02/05/2016 21:21	WG847047
Endrin	ND		0.0764	1	02/05/2016 21:21	WG847047
Endrin aldehyde	ND		0.0764	1	02/05/2016 21:21	WG847047
Endrin ketone	ND		0.0764	1	02/05/2016 21:21	WG847047
Hexachlorobenzene	ND		0.0764	1	02/05/2016 21:21	WG847047
Heptachlor	ND	J4	0.0764	1	02/05/2016 21:21	WG847047
Heptachlor epoxide	ND		0.0764	1	02/05/2016 21:21	WG847047
Methoxychlor	ND		0.0764	1	02/05/2016 21:21	WG847047
Toxaphene	ND		1.53	1	02/05/2016 21:21	WG847047
(S) Decachlorobiphenyl	95.9		10.0-143		02/05/2016 21:21	WG847047
(S) Tetrachloro-m-xylene	107		29.2-144		02/05/2016 21:21	WG847047

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.126	1	02/05/2016 09:00	WG847030
Acenaphthylene	ND		0.126	1	02/05/2016 09:00	WG847030
Anthracene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzidine	ND		1.27	1	02/05/2016 09:00	WG847030
Benzo(a)anthracene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzo(b)fluoranthene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzo(k)fluoranthene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzo(g,h,i)perylene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzo(a)pyrene	ND		0.126	1	02/05/2016 09:00	WG847030
Bis(2-chlorethoxy)methane	ND		1.27	1	02/05/2016 09:00	WG847030
Bis(2-chloroethyl)ether	ND		1.27	1	02/05/2016 09:00	WG847030
Bis(2-chloroisopropyl)ether	ND		1.27	1	02/05/2016 09:00	WG847030
4-Bromophenyl-phenylether	ND		1.27	1	02/05/2016 09:00	WG847030
2-Chloronaphthalene	ND		0.126	1	02/05/2016 09:00	WG847030
4-Chlorophenyl-phenylether	ND		1.27	1	02/05/2016 09:00	WG847030
Chrysene	ND		0.126	1	02/05/2016 09:00	WG847030
Dibenz(a,h)anthracene	ND		0.126	1	02/05/2016 09:00	WG847030
3,3-Dichlorobenzidine	ND		1.27	1	02/05/2016 09:00	WG847030
2,4-Dinitrotoluene	ND		1.27	1	02/05/2016 09:00	WG847030
2,6-Dinitrotoluene	ND		1.27	1	02/05/2016 09:00	WG847030
Fluoranthene	ND		0.126	1	02/05/2016 09:00	WG847030
Fluorene	ND		0.126	1	02/05/2016 09:00	WG847030
Hexachlorobenzene	ND		1.27	1	02/05/2016 09:00	WG847030
Hexachloro-1,3-butadiene	ND		1.27	1	02/05/2016 09:00	WG847030
Hexachlorocyclopentadiene	ND		1.27	1	02/05/2016 09:00	WG847030
Hexachloroethane	ND		1.27	1	02/05/2016 09:00	WG847030
Indeno(1,2,3-cd)pyrene	ND		0.126	1	02/05/2016 09:00	WG847030
Isophorone	ND		1.27	1	02/05/2016 09:00	WG847030
Naphthalene	ND		0.126	1	02/05/2016 09:00	WG847030



Collected date/time: 02/02/16 15:00

L815482

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrobenzene	ND		1.27	1	02/05/2016 09:00	WG847030
n-Nitrosodimethylamine	ND		1.27	1	02/05/2016 09:00	WG847030
n-Nitrosodiphenylamine	ND		1.27	1	02/05/2016 09:00	WG847030
n-Nitrosodi-n-propylamine	ND		1.27	1	02/05/2016 09:00	WG847030
Phenanthrene	ND		0.126	1	02/05/2016 09:00	WG847030
Benzylbutyl phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Bis(2-ethylhexyl)phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Di-n-butyl phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Diethyl phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Dimethyl phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Di-n-octyl phthalate	ND		1.27	1	02/05/2016 09:00	WG847030
Pyrene	ND		0.126	1	02/05/2016 09:00	WG847030
1,2,4-Trichlorobenzene	ND		1.27	1	02/05/2016 09:00	WG847030
4-Chloro-3-methylphenol	ND		1.27	1	02/05/2016 09:00	WG847030
2-Chlorophenol	ND		1.27	1	02/05/2016 09:00	WG847030
2,4-Dichlorophenol	ND		1.27	1	02/05/2016 09:00	WG847030
2,4-Dimethylphenol	ND		1.27	1	02/05/2016 09:00	WG847030
4,6-Dinitro-2-methylphenol	ND		1.27	1	02/05/2016 09:00	WG847030
2,4-Dinitrophenol	ND		1.27	1	02/05/2016 09:00	WG847030
2-Nitrophenol	ND		1.27	1	02/05/2016 09:00	WG847030
4-Nitrophenol	ND		1.27	1	02/05/2016 09:00	WG847030
Pentachlorophenol	ND		1.27	1	02/05/2016 09:00	WG847030
Phenol	ND		1.27	1	02/05/2016 09:00	WG847030
2,4,6-Trichlorophenol	ND		1.27	1	02/05/2016 09:00	WG847030
(S) 2-Fluorophenol	64.7		21.1-116		02/05/2016 09:00	WG847030
(S) Phenol-d5	66.3		26.3-121		02/05/2016 09:00	WG847030
(S) Nitrobenzene-d5	59.7		21.9-129		02/05/2016 09:00	WG847030
(S) 2-Fluorobiphenyl	56.8		34.9-129		02/05/2016 09:00	WG847030
(S) 2,4,6-Tribromophenol	73.5		21.6-142		02/05/2016 09:00	WG847030
(S) p-Terphenyl-d14	44.9		21.5-128		02/05/2016 09:00	WG847030

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

[L815482-01](#)

Method Blank (MB)

(MB) 02/06/16 12:56

Analyte	MB Result %	<u>MB Qualifier</u>	MB RDL %
Total Solids	0.000600		

L815725-05 Original Sample (OS) • Duplicate (DUP)

(OS) 02/06/16 12:56 • (DUP) 02/06/16 12:56

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Total Solids	79.1	78.0	1	1.41		5

Laboratory Control Sample (LCS)

(LCS) 02/06/16 12:56

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/05/16 17:58

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Aluminum	ND		10.0
Antimony	ND		2.00
Arsenic	ND		2.00
Barium	ND		0.500
Beryllium	ND		0.200
Cadmium	ND		0.500
Calcium	ND		100
Chromium	ND		1.00
Cobalt	ND		1.00
Copper	ND		2.00

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 18:01 • (LCSD) 02/05/16 18:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aluminum	1000	1060	994	106	99	80-120			6	20
Antimony	100	110	104	110	104	80-120			6	20
Arsenic	100	106	99.7	106	100	80-120			6	20
Barium	100	108	101	108	101	80-120			6	20
Beryllium	100	106	100	106	100	80-120			6	20
Cadmium	100	109	102	109	102	80-120			6	20
Calcium	1000	1040	982	104	98	80-120			6	20
Chromium	100	105	99.0	105	99	80-120			6	20
Cobalt	100	106	99.0	106	99	80-120			7	20
Copper	100	107	100	107	100	80-120			7	20

L815299-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 18:07 • (MS) 02/05/16 18:16 • (MSD) 02/05/16 18:19

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	1000	31200	33900	32500	262	126	1	75-125	V	V	4	20
Antimony	100	0.292	49.2	49.8	49	50	1	75-125	J6	J6	1	20
Arsenic	100	12.5	110	104	97	92	1	75-125			5	20



L815299-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 18:07 • (MS) 02/05/16 18:16 • (MSD) 02/05/16 18:19

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	106	209	211	103	105	1	75-125			1	20
Beryllium	100	1.05	102	99.3	101	98	1	75-125			2	20
Cadmium	100	0.305	105	102	105	102	1	75-125			3	20
Calcium	1000	10300	8810	8050	0	0	1	75-125	V	V	9	20
Chromium	100	34.1	138	125	104	90	1	75-125			10	20
Cobalt	100	7.59	114	113	107	106	1	75-125			1	20
Copper	100	21.4	117	114	96	92	1	75-125			3	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/06/16 02:27

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Acetone	ND		0.0500
Acrylonitrile	ND		0.0100
Benzene	ND		0.00100
Bromobenzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
n-Butylbenzene	ND		0.00100
sec-Butylbenzene	ND		0.00100
tert-Butylbenzene	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
2-Chloroethyl vinyl ether	ND		0.0500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
2-Chlorotoluene	ND		0.00100
4-Chlorotoluene	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
Dibromomethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
1,1-Dichloropropene	ND		0.00100
1,3-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100
trans-1,3-Dichloropropene	ND		0.00100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) 02/06/16 02:27

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
2,2-Dichloropropane	ND		0.00100
Di-isopropyl ether	ND		0.00100
Ethylbenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.00100
Isopropylbenzene	ND		0.00100
p-Isopropyltoluene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100
Naphthalene	ND		0.00500
n-Propylbenzene	ND		0.00100
Styrene	ND		0.00100
1,1,1,2-Tetrachloroethane	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
1,2,3-Trichloropropane	ND		0.00250
1,2,3-Trimethylbenzene	ND		0.00100
1,2,4-Trimethylbenzene	ND		0.00100
1,3,5-Trimethylbenzene	ND		0.00100
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	106		88.7-115
(S) Dibromofluoromethane	102		76.3-123
(S) 4-Bromofluorobenzene	103		69.7-129

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/06/16 00:38 • (LCSD) 02/06/16 01:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0885	0.0918	70.8	73.4	25.3-178			3.60	22.9
Acrylonitrile	0.125	0.128	0.141	102	113	57.8-143			9.86	20
Benzene	0.0250	0.0228	0.0241	91.1	96.5	72.6-120			5.76	20
Bromobenzene	0.0250	0.0231	0.0246	92.5	98.4	80.3-115			6.23	20
Bromodichloromethane	0.0250	0.0246	0.0267	98.2	107	75.3-119			8.23	20
Bromoform	0.0250	0.0228	0.0251	91.2	100	69.1-135			9.46	20
Bromomethane	0.0250	0.0228	0.0243	91.2	97.4	23.0-191			6.56	20
n-Butylbenzene	0.0250	0.0234	0.0254	93.7	102	74.2-134			8.09	20
sec-Butylbenzene	0.0250	0.0232	0.0248	92.6	99.3	77.8-129			6.98	20
tert-Butylbenzene	0.0250	0.0232	0.0250	92.9	100	77.2-129			7.38	20
Carbon tetrachloride	0.0250	0.0222	0.0238	88.9	95.2	69.4-129			6.75	20
Chlorobenzene	0.0250	0.0228	0.0241	91.1	96.4	78.9-122			5.67	20
Chlorodibromomethane	0.0250	0.0230	0.0247	92.1	98.8	76.4-126			6.95	20
Chloroethane	0.0250	0.0241	0.0255	96.2	102	47.2-147			5.84	20
2-Chloroethyl vinyl ether	0.125	0.0697	0.0789	55.7	63.1	16.7-162			12.4	23.7
Chloroform	0.0250	0.0244	0.0259	97.7	104	73.3-122			5.84	20
Chloromethane	0.0250	0.0210	0.0218	84.0	87.2	53.1-135			3.77	20
2-Chlorotoluene	0.0250	0.0227	0.0243	90.9	97.4	74.6-127			6.83	20
4-Chlorotoluene	0.0250	0.0239	0.0254	95.7	102	79.5-123			6.08	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0236	0.0279	94.5	112	64.9-131			16.8	20
1,2-Dibromoethane	0.0250	0.0232	0.0253	92.8	101	78.7-123			8.69	20
Dibromomethane	0.0250	0.0240	0.0268	96.1	107	78.5-117			11.0	20
1,2-Dichlorobenzene	0.0250	0.0234	0.0254	93.5	101	83.6-119			8.10	20
1,3-Dichlorobenzene	0.0250	0.0217	0.0231	86.9	92.4	75.9-129			6.11	20
1,4-Dichlorobenzene	0.0250	0.0226	0.0241	90.3	96.5	81.0-115			6.66	20
Dichlorodifluoromethane	0.0250	0.0229	0.0226	91.5	90.4	50.9-139			1.25	20
1,1-Dichloroethane	0.0250	0.0245	0.0262	98.1	105	71.7-125			6.64	20
1,2-Dichloroethane	0.0250	0.0255	0.0270	102	108	67.2-121			5.61	20
1,1-Dichloroethene	0.0250	0.0241	0.0263	96.4	105	60.6-133			8.79	20
cis-1,2-Dichloroethene	0.0250	0.0246	0.0260	98.2	104	76.1-121			5.65	20
trans-1,2-Dichloroethene	0.0250	0.0238	0.0245	95.0	98.0	70.7-124			3.05	20
1,2-Dichloropropane	0.0250	0.0242	0.0260	96.9	104	76.9-123			6.95	20
1,1-Dichloropropene	0.0250	0.0257	0.0268	103	107	71.2-126			3.93	20
1,3-Dichloropropane	0.0250	0.0240	0.0260	95.9	104	80.3-114			8.15	20
cis-1,3-Dichloropropene	0.0250	0.0253	0.0275	101	110	77.3-123			8.19	20
trans-1,3-Dichloropropene	0.0250	0.0255	0.0272	102	109	73.0-127			6.41	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/06/16 00:38 • (LCSD) 02/06/16 01:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,2-Dichloropropane	0.0250	0.0251	0.0272	100	109	61.9-132			8.17	20
Di-isopropyl ether	0.0250	0.0250	0.0261	100	104	67.2-131			4.13	20
Ethylbenzene	0.0250	0.0227	0.0243	90.8	97.3	78.6-124			6.91	20
Hexachloro-1,3-butadiene	0.0250	0.0228	0.0259	91.3	103	69.2-136			12.5	20
Isopropylbenzene	0.0250	0.0233	0.0249	93.0	99.7	79.4-126			6.96	20
p-Isopropyltoluene	0.0250	0.0240	0.0256	96.0	102	75.4-132			6.56	20
2-Butanone (MEK)	0.125	0.103	0.110	82.2	88.1	44.5-154			6.95	21.3
Methylene Chloride	0.0250	0.0243	0.0255	97.1	102	68.2-119			5.04	20
4-Methyl-2-pentanone (MIBK)	0.125	0.120	0.137	96.0	109	61.1-138			13.1	20
Methyl tert-butyl ether	0.0250	0.0250	0.0268	100	107	70.2-122			7.03	20
Naphthalene	0.0250	0.0241	0.0274	96.5	109	69.9-132			12.6	20
n-Propylbenzene	0.0250	0.0232	0.0247	92.6	98.8	80.2-124			6.47	20
Styrene	0.0250	0.0204	0.0222	81.4	88.7	79.4-124			8.50	20
1,1,1,2-Tetrachloroethane	0.0250	0.0229	0.0249	91.5	99.7	76.7-127			8.65	20
1,1,2,2-Tetrachloroethane	0.0250	0.0229	0.0255	91.7	102	78.8-124			10.7	20
Tetrachloroethene	0.0250	0.0217	0.0235	86.9	93.9	71.1-133			7.83	20
Toluene	0.0250	0.0227	0.0244	90.9	97.6	76.7-116			7.14	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0251	0.0261	100	104	62.6-138			3.88	20
1,2,3-Trichlorobenzene	0.0250	0.0246	0.0269	98.5	108	72.5-137			8.91	20
1,2,4-Trichlorobenzene	0.0250	0.0240	0.0261	96.0	104	74.0-137			8.46	20
1,1,1-Trichloroethane	0.0250	0.0245	0.0261	98.2	104	69.9-127			6.22	20
1,1,2-Trichloroethane	0.0250	0.0223	0.0246	89.3	98.6	81.9-119			9.86	20
Trichloroethene	0.0250	0.0223	0.0245	89.2	98.0	77.2-122			9.38	20
Trichlorofluoromethane	0.0250	0.0235	0.0247	94.1	98.8	51.5-151			4.89	20
1,2,3-Trichloropropane	0.0250	0.0236	0.0262	94.5	105	74.0-124			10.4	20
1,2,3-Trimethylbenzene	0.0250	0.0243	0.0260	97.4	104	79.4-118			6.76	20
1,2,4-Trimethylbenzene	0.0250	0.0237	0.0251	94.7	100	77.1-124			5.88	20
1,3,5-Trimethylbenzene	0.0250	0.0232	0.0247	92.6	98.9	79.0-125			6.56	20
Vinyl chloride	0.0250	0.0233	0.0244	93.2	97.6	58.4-134			4.65	20
Xylenes, Total	0.0750	0.0680	0.0729	90.7	97.2	78.1-123			6.90	20
(S) Toluene-d8				104	106	88.7-115				
(S) Dibromofluoromethane				102	102	76.3-123				
(S) 4-Bromofluorobenzene				100	102	69.7-129				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L815299-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/06/16 04:16 • (MS) 02/06/16 03:11 • (MSD) 02/06/16 03:32

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00300	0.426	0.425	67.7	67.6	5	10.0-130			0.200	31.5
Acrylonitrile	0.125	ND	0.578	0.605	92.5	96.9	5	39.3-152			4.62	27.2
Benzene	0.0250	ND	0.119	0.128	95.2	102	5	47.8-131			7.00	22.8
Bromobenzene	0.0250	ND	0.111	0.122	88.7	97.2	5	40.0-130			9.21	27.4
Bromodichloromethane	0.0250	ND	0.126	0.133	101	106	5	50.6-128			5.34	22.8
Bromoform	0.0250	ND	0.107	0.118	85.8	94.6	5	43.3-139			9.76	25.9
Bromomethane	0.0250	0.000734	0.123	0.133	97.6	106	5	5.00-189			8.29	26.7
n-Butylbenzene	0.0250	0.000465	0.117	0.121	93.0	96.8	5	23.6-146			3.95	39.2
sec-Butylbenzene	0.0250	0.000236	0.117	0.127	93.6	101	5	31.0-142			8.01	34.7
tert-Butylbenzene	0.0250	0.000201	0.122	0.132	97.1	106	5	36.9-142			8.53	31.7
Carbon tetrachloride	0.0250	ND	0.122	0.137	97.7	110	5	46.0-140			11.5	27.2
Chlorobenzene	0.0250	ND	0.114	0.125	91.0	99.9	5	44.1-134			9.30	25.7
Chlorodibromomethane	0.0250	ND	0.115	0.124	92.0	99.0	5	49.7-134			7.33	24
Chloroethane	0.0250	ND	0.131	0.141	104	112	5	5.00-164			7.36	28.4
2-Chloroethyl vinyl ether	0.125	ND	0.350	0.379	56.1	60.7	5	5.00-159			7.91	40
Chloroform	0.0250	ND	0.126	0.136	101	109	5	51.2-133			7.88	22.8
Chloromethane	0.0250	0.00569	0.118	0.128	90.1	98.1	5	31.4-141			8.11	24.6
2-Chlorotoluene	0.0250	ND	0.112	0.122	89.8	97.9	5	36.1-137			8.66	28.9
4-Chlorotoluene	0.0250	0.000208	0.117	0.128	93.5	102	5	35.4-137			8.68	29.8
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.112	0.117	89.6	93.5	5	40.4-138			4.28	30.8
1,2-Dibromoethane	0.0250	ND	0.111	0.121	88.8	97.0	5	50.2-133			8.81	23.6
Dibromomethane	0.0250	ND	0.122	0.128	97.9	102	5	52.4-128			4.23	23
1,2-Dichlorobenzene	0.0250	0.000248	0.112	0.119	89.3	95.2	5	34.6-139			6.39	29.9
1,3-Dichlorobenzene	0.0250	0.000217	0.102	0.112	81.7	89.3	5	28.4-142			8.88	31.2
1,4-Dichlorobenzene	0.0250	ND	0.108	0.116	86.2	93.1	5	35.0-133			7.68	31.1
Dichlorodifluoromethane	0.0250	ND	0.117	0.129	93.7	103	5	31.2-144			9.72	30.2
1,1-Dichloroethane	0.0250	ND	0.129	0.139	103	111	5	49.1-136			7.30	22.9
1,2-Dichloroethane	0.0250	ND	0.126	0.132	101	106	5	47.1-129			4.48	22.7
1,1-Dichloroethene	0.0250	ND	0.131	0.144	105	115	5	36.1-142			9.81	25.6
cis-1,2-Dichloroethene	0.0250	ND	0.125	0.135	99.7	108	5	50.6-133			8.33	23
trans-1,2-Dichloroethene	0.0250	ND	0.124	0.134	99.4	107	5	43.8-135			7.20	24.8
1,2-Dichloropropane	0.0250	ND	0.128	0.134	102	107	5	50.3-134			4.69	22.7
1,1-Dichloropropene	0.0250	ND	0.134	0.148	107	118	5	43.0-137			9.90	26.4
1,3-Dichloropropane	0.0250	ND	0.120	0.126	95.9	101	5	51.4-127			5.21	23.1
cis-1,3-Dichloropropene	0.0250	ND	0.127	0.135	102	108	5	48.4-134			5.95	23.6
trans-1,3-Dichloropropene	0.0250	ND	0.126	0.133	101	106	5	46.6-135			5.01	25.3

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



L815299-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/06/16 04:16 • (MS) 02/06/16 03:11 • (MSD) 02/06/16 03:32

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,2-Dichloropropane	0.0250	ND	0.143	0.161	114	129	5	45.2-141			11.6	26.6
Di-isopropyl ether	0.0250	ND	0.126	0.133	101	106	5	46.7-140			5.01	23.5
Ethylbenzene	0.0250	ND	0.118	0.131	94.2	105	5	44.8-135			10.5	26.9
Hexachloro-1,3-butadiene	0.0250	0.000786	0.103	0.110	81.7	87.0	5	10.0-149			6.24	40
Isopropylbenzene	0.0250	ND	0.122	0.134	97.6	107	5	41.9-139			9.19	29.3
p-Isopropyltoluene	0.0250	0.000371	0.120	0.126	95.4	101	5	27.3-146			5.56	35.1
2-Butanone (MEK)	0.125	ND	0.495	0.494	79.2	79.0	5	23.9-170			0.270	28.3
Methylene Chloride	0.0250	0.000794	0.120	0.128	95.6	101	5	46.7-125			5.85	22.2
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.590	0.597	94.4	95.5	5	42.4-146			1.16	26.7
Methyl tert-butyl ether	0.0250	ND	0.123	0.128	98.8	102	5	50.4-131			3.44	24.8
Naphthalene	0.0250	0.00150	0.0994	0.110	78.4	87.0	5	18.4-145			10.3	34
n-Propylbenzene	0.0250	0.000313	0.117	0.127	93.7	101	5	35.2-139			7.65	31.9
Styrene	0.0250	ND	0.0899	0.107	71.9	85.7	5	39.7-137			17.5	28.2
1,1,1,2-Tetrachloroethane	0.0250	ND	0.118	0.129	94.7	103	5	48.8-136			8.54	25.5
1,1,2,2-Tetrachloroethane	0.0250	ND	0.111	0.116	88.9	93.2	5	45.7-140			4.69	26.4
Tetrachloroethene	0.0250	ND	0.115	0.124	92.0	99.3	5	37.7-140			7.57	29.2
Toluene	0.0250	0.000261	0.118	0.129	94.4	103	5	47.8-127			8.42	24.3
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.137	0.140	109	112	5	35.7-146			2.67	28.8
1,2,3-Trichlorobenzene	0.0250	0.00150	0.101	0.114	79.4	90.2	5	10.0-150			12.6	38.5
1,2,4-Trichlorobenzene	0.0250	0.000919	0.100	0.110	79.5	87.5	5	10.0-153			9.42	39.3
1,1,1-Trichloroethane	0.0250	ND	0.135	0.145	108	116	5	49.0-138			7.72	25.3
1,1,2-Trichloroethane	0.0250	ND	0.116	0.120	92.4	95.7	5	52.3-132			3.52	23.4
Trichloroethene	0.0250	ND	0.116	0.128	92.4	102	5	48.0-132			9.90	24.8
Trichlorofluoromethane	0.0250	ND	0.132	0.144	106	115	5	12.8-169			8.73	29.7
1,2,3-Trichloropropane	0.0250	ND	0.113	0.117	90.5	93.9	5	44.4-138			3.63	26.3
1,2,3-Trimethylbenzene	0.0250	0.000452	0.122	0.130	97.4	104	5	41.0-133			6.34	27.6
1,2,4-Trimethylbenzene	0.0250	0.000574	0.116	0.125	92.6	99.7	5	32.9-139			7.36	30.6
1,3,5-Trimethylbenzene	0.0250	0.000172	0.118	0.127	94.3	102	5	37.1-138			7.70	30.6
Vinyl chloride	0.0250	ND	0.125	0.137	99.6	110	5	32.0-146			9.71	26.3
Xylenes, Total	0.0750	ND	0.350	0.383	93.3	102	5	42.7-135			9.05	26.6
(S) Toluene-d8					105	105		88.7-115				
(S) Dibromofluoromethane					101	101		76.3-123				
(S) 4-Bromofluorobenzene					99.3	100		69.7-129				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/05/16 18:07

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
2,4-D	ND		0.0700
Dalapon	ND		0.800
2,4-DB	ND		0.0700
Dicamba	ND		0.0700
Dichloroprop	ND		0.0700
Dinoseb	ND		0.0700
MCPA	ND		6.50
MCPP	ND		6.50
2,4,5-T	ND		0.0700
2,4,5-TP (Silvex)	ND		0.0700
(S) 2,4-Dichlorophenyl Acetic Acid	68.6		23.5-129

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 18:20 • (LCSD) 02/05/16 18:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,4,5-T	0.1667	0.111	0.127	66.3	75.9	44.9-111			13.5	21.5
2,4,5-TP (Silvex)	0.1667	0.119	0.134	71.3	80.6	48.4-110			12.3	25.9
2,4-D	0.1667	0.0959	0.104	57.5	62.6	40.0-112			8.43	24.8
2,4-DB	0.1667	0.0875	0.132	52.5	79.3	33.8-126		J3	40.6	27.8
Dalapon	0.1667	ND	ND	63.8	69.4	36.7-119			8.37	28
Dicamba	0.1667	0.121	0.135	72.7	81.0	50.2-125			10.7	20
Dichloroprop	0.1667	0.120	0.139	72.2	83.5	39.9-99.0			14.5	20.1
Dinoseb	0.1667	0.0490	0.0303	29.4	18.2	15.6-109		J3	47.0	40
MCPA	16.666	8.55	8.57	51.3	51.4	34.7-110			0.290	31.7
MCPP	16.666	8.91	10.3	53.5	61.5	41.0-121			14.0	24.9
(S) 2,4-Dichlorophenyl Acetic Acid				67.4	73.9	23.5-129				

L815482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 21:33 • (MS) 02/05/16 21:46 • (MSD) 02/05/16 21:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4,5-T	0.1667	ND	0.113	0.110	67.8	66.1	1	26.5-114			2.51	36



L815482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 21:33 • (MS) 02/05/16 21:46 • (MSD) 02/05/16 21:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4,5-TP (Silvex)	0.1667	ND	0.118	0.112	70.7	67.3	1	29.5-111			4.89	37.7
2,4-D	0.1667	ND	0.104	0.101	62.1	60.3	1	14.9-129			2.88	40
2,4-DB	0.1667	ND	0.127	0.121	76.4	72.7	1	10.0-141			4.92	40
Dalapon	0.1667	ND	ND	ND	69.8	66.8	1	17.5-118			4.35	40
Dicamba	0.1667	ND	0.120	0.119	71.7	71.1	1	17.0-146			0.850	36.9
Dichloroprop	0.1667	ND	0.116	0.113	69.3	67.7	1	27.8-95.9			2.45	34.1
Dinoseb	0.1667	ND	0.0607	0.0621	36.4	37.2	1	10.0-119			2.31	40
MCPA	16.666	ND	7.91	8.30	47.5	49.8	1	14.3-134			4.73	40
MCPP	16.666	ND	7.74	7.00	46.4	42.0	1	10.0-147			10.1	40
(S) 2,4-Dichlorophenyl Acetic Acid					68.4	66.3		23.5-129				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/05/16 18:18

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Aldrin	ND		0.0200
Alpha BHC	ND		0.0200
Beta BHC	ND		0.0200
Delta BHC	ND		0.0200
Gamma BHC	ND		0.0200
4,4-DDD	ND		0.0200
4,4-DDE	ND		0.0200
4,4-DDT	ND		0.0200
Dieldrin	ND		0.0200
Endosulfan I	ND		0.0200
Endosulfan II	ND		0.0200
Endosulfan sulfate	ND		0.0200
Endrin	ND		0.0200
Endrin aldehyde	ND		0.0200
Endrin ketone	ND		0.0200
Heptachlor	ND		0.0200
Heptachlor epoxide	ND		0.0200
Hexachlorobenzene	ND		0.0200
Methoxychlor	ND		0.0200
Chlordane	ND		0.200
Toxaphene	ND		0.400
(S) Decachlorobiphenyl	89.5		10.0-143
(S) Tetrachloro-m-xylene	93.3		29.2-144

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 18:30 • (LCSD) 02/05/16 18:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0753	0.0761	113	114	65.8-124			1.07	20
Alpha BHC	0.0667	0.0700	0.0697	105	104	65.7-126			0.520	20
Beta BHC	0.0667	0.0730	0.0727	109	109	57.6-137			0.450	20
Delta BHC	0.0667	0.0720	0.0722	108	108	65.7-124			0.250	20
Gamma BHC	0.0667	0.0707	0.0704	106	106	64.5-121			0.320	20
4,4-DDD	0.0667	0.0773	0.0799	116	120	65.6-122			3.26	20
4,4-DDE	0.0667	0.0748	0.0769	112	115	61.9-132			2.76	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 18:30 • (LCSD) 02/05/16 18:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4,4-DDT	0.0667	0.0751	0.0781	113	117	57.6-125			3.94	20
Dieldrin	0.0667	0.0777	0.0797	117	119	64.1-122			2.54	20
Endosulfan I	0.0667	0.0772	0.0782	116	117	62.0-121			1.28	20
Endosulfan II	0.0667	0.0769	0.0783	115	117	64.2-117			1.88	20
Endosulfan sulfate	0.0667	0.0775	0.0792	116	119	58.3-128			2.14	20
Endrin	0.0667	0.0751	0.0766	113	115	53.6-127			2.02	20
Endrin aldehyde	0.0667	0.0696	0.0714	104	107	37.4-130			2.53	20
Endrin ketone	0.0667	0.0786	0.0803	118	120	63.0-121			2.12	20
Heptachlor	0.0667	0.0804	0.0809	121	121	66.4-118	J4	J4	0.620	20
Heptachlor epoxide	0.0667	0.0750	0.0762	112	114	60.6-132			1.57	20
Hexachlorobenzene	0.0667	0.0715	0.0709	107	106	57.6-131			0.870	20
Methoxychlor	0.0667	0.0813	0.0850	122	128	54.8-131			4.52	20
(S) Decachlorobiphenyl				90.4	99.0	10.0-143				
(S) Tetrachloro-m-xylene				99.0	103	29.2-144				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L814777-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 19:31 • (MS) 02/05/16 19:44 • (MSD) 02/05/16 19:56

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	ND	0.0647	0.0732	97.0	110	1	20.2-150			12.3	20
Alpha BHC	0.0667	ND	0.0609	0.0683	91.3	102	1	35.3-155			11.4	20
Beta BHC	0.0667	ND	0.0629	0.0702	94.3	105	1	30.4-160			11.0	20
Delta BHC	0.0667	ND	0.0608	0.0684	91.2	103	1	27.8-160			11.7	20
Gamma BHC	0.0667	ND	0.0611	0.0686	91.5	103	1	32.6-149			11.6	20
4,4-DDD	0.0667	ND	0.0658	0.0750	98.6	112	1	33.0-145			13.1	20
4,4-DDE	0.0667	0.00401	0.0817	0.0851	116	121	1	26.3-151			4.03	20
4,4-DDT	0.0667	0.00228	0.0687	0.0770	99.6	112	1	11.8-145			11.3	23.8
Dieldrin	0.0667	ND	0.0698	0.0778	105	117	1	24.8-149			10.9	20
Endosulfan I	0.0667	ND	0.0637	0.0725	95.5	109	1	20.7-152			13.0	20
Endosulfan II	0.0667	ND	0.0673	0.0751	101	113	1	22.1-150			10.9	20
Endosulfan sulfate	0.0667	ND	0.0689	0.0759	103	114	1	24.6-151			9.55	21.5
Endrin	0.0667	ND	0.0653	0.0741	97.8	111	1	27.3-149			12.7	21.2
Endrin aldehyde	0.0667	ND	0.0602	0.0684	90.3	102	1	11.0-157			12.6	20
Endrin ketone	0.0667	ND	0.0667	0.0754	100	113	1	28.5-148			12.3	20
Heptachlor	0.0667	ND	0.0691	0.0787	104	118	1	26.7-144			13.0	20



L814777-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 19:31 • (MS) 02/05/16 19:44 • (MSD) 02/05/16 19:56

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Heptachlor epoxide	0.0667	ND	0.0641	0.0719	96.2	108	1	25.2-155			11.5	20
Hexachlorobenzene	0.0667	ND	0.0625	0.0695	93.7	104	1	19.0-156			10.6	20
Methoxychlor	0.0667	ND	0.0719	0.0815	108	122	1	10.0-165			12.4	25.4
(S) Decachlorobiphenyl					74.8	90.0		10.0-143				
(S) Tetrachloro-m-xylene					91.0	104		29.2-144				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 02/05/16 03:18

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Acenaphthene	ND		0.0330
Acenaphthylene	ND		0.0330
Anthracene	ND		0.0330
Benzidine	ND		0.333
Benzo(a)anthracene	ND		0.0330
Benzo(b)fluoranthene	ND		0.0330
Benzo(k)fluoranthene	ND		0.0330
Benzo(g,h,i)perylene	ND		0.0330
Benzo(a)pyrene	ND		0.0330
Bis(2-chlorethoxy)methane	ND		0.333
Bis(2-chloroethyl)ether	ND		0.333
Bis(2-chloroisopropyl)ether	ND		0.333
4-Bromophenyl-phenylether	ND		0.333
2-Chloronaphthalene	ND		0.0330
4-Chlorophenyl-phenylether	ND		0.333
Chrysene	ND		0.0330
Dibenz(a,h)anthracene	ND		0.0330
3,3-Dichlorobenzidine	ND		0.333
2,4-Dinitrotoluene	ND		0.333
2,6-Dinitrotoluene	ND		0.333
Fluoranthene	ND		0.0330
Fluorene	ND		0.0330
Hexachlorobenzene	ND		0.333
Hexachloro-1,3-butadiene	ND		0.333
Hexachlorocyclopentadiene	ND		0.333
Hexachloroethane	ND		0.333
Indeno(1,2,3-cd)pyrene	ND		0.0330
Isophorone	ND		0.333
Naphthalene	ND		0.0330
Nitrobenzene	ND		0.333
n-Nitrosodimethylamine	ND		0.333
n-Nitrosodiphenylamine	ND		0.333
n-Nitrosodi-n-propylamine	ND		0.333
Phenanthrene	ND		0.0330
Benzylbutyl phthalate	ND		0.333
Bis(2-ethylhexyl)phthalate	ND		0.333

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 02/05/16 03:18

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Di-n-butyl phthalate	ND		0.333
Diethyl phthalate	ND		0.333
Dimethyl phthalate	ND		0.333
Di-n-octyl phthalate	ND		0.333
Pyrene	ND		0.0330
1,2,4-Trichlorobenzene	ND		0.333
4-Chloro-3-methylphenol	ND		0.333
2-Chlorophenol	ND		0.333
2,4-Dichlorophenol	ND		0.333
2,4-Dimethylphenol	ND		0.333
4,6-Dinitro-2-methylphenol	ND		0.333
2,4-Dinitrophenol	ND		0.333
2-Nitrophenol	ND		0.333
4-Nitrophenol	ND		0.333
Pentachlorophenol	ND		0.333
Phenol	ND		0.333
2,4,6-Trichlorophenol	ND		0.333
(S) Nitrobenzene-d5	51.3		21.9-129
(S) 2-Fluorobiphenyl	53.4		34.9-129
(S) p-Terphenyl-d14	62.2		21.5-128
(S) Phenol-d5	58.5		26.3-121
(S) 2-Fluorophenol	54.5		21.1-116
(S) 2,4,6-Tribromophenol	60.9		21.6-142

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 02:32 • (LCSD) 02/05/16 02:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	0.409	0.377	61.3	56.4	48.9-107			8.26	20
Acenaphthylene	0.667	0.424	0.384	63.6	57.5	49.2-111			10.1	20
Anthracene	0.667	0.437	0.379	65.6	56.8	52.0-112			14.4	20
Benzidine	0.667	0.0995	0.0713	14.9	10.7	0.000-48.0			33.0	40
Benzo(a)anthracene	0.667	0.433	0.390	64.9	58.5	52.3-106			10.5	20
Benzo(b)fluoranthene	0.667	0.431	0.391	64.6	58.6	51.3-106			9.69	20
Benzo(k)fluoranthene	0.667	0.426	0.396	63.9	59.3	52.9-107			7.52	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 02:32 • (LCSD) 02/05/16 02:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(g,h,i)perylene	0.667	0.446	0.436	66.8	65.4	45.8-108			2.17	20
Benzo(a)pyrene	0.667	0.430	0.403	64.4	60.5	51.9-106			6.34	20
Bis(2-chlorethoxy)methane	0.667	0.409	0.366	61.3	54.9	44.9-108			11.1	20
Bis(2-chloroethyl)ether	0.667	0.381	0.336	57.2	50.3	32.5-112			12.7	26
Bis(2-chloroisopropyl)ether	0.667	0.389	0.348	58.3	52.2	40.4-99.0			11.0	20.7
4-Bromophenyl-phenylether	0.667	0.424	0.369	63.6	55.3	51.4-110			13.9	20
2-Chloronaphthalene	0.667	0.418	0.379	62.7	56.8	47.1-105			9.95	20
4-Chlorophenyl-phenylether	0.667	0.407	0.363	61.0	54.4	48.1-108			11.5	20
Chrysene	0.667	0.407	0.368	61.0	55.1	54.4-110			10.2	20
Dibenz(a,h)anthracene	0.667	0.451	0.421	67.6	63.2	45.7-111			6.71	20
3,3-Dichlorobenzidine	0.667	0.340	0.296	51.0	44.3	21.0-101			14.0	22
2,4-Dinitrotoluene	0.667	0.413	0.369	61.9	55.3	53.0-112			11.3	20
2,6-Dinitrotoluene	0.667	0.417	0.381	62.5	57.1	51.6-110			8.99	20
Fluoranthene	0.667	0.422	0.372	63.3	55.8	53.7-110			12.5	20
Fluorene	0.667	0.396	0.360	59.4	53.9	51.1-109			9.64	20
Hexachlorobenzene	0.667	0.461	0.407	69.2	61.0	43.2-104			12.6	20.1
Hexachloro-1,3-butadiene	0.667	0.343	0.301	51.4	45.1	41.5-112			13.1	20
Hexachlorocyclopentadiene	0.667	0.253	0.232	38.0	34.8	13.5-123			8.77	20.7
Hexachloroethane	0.667	0.342	0.290	51.3	43.5	36.2-103			16.4	22.7
Indeno(1,2,3-cd)pyrene	0.667	0.460	0.456	68.9	68.3	47.5-109			0.840	20
Isophorone	0.667	0.448	0.399	67.2	59.9	28.8-104			11.5	20
Naphthalene	0.667	0.386	0.343	57.9	51.5	43.4-103			11.7	20
Nitrobenzene	0.667	0.380	0.351	57.0	52.7	40.7-109			7.91	21
n-Nitrosodimethylamine	0.667	0.327	0.274	49.0	41.1	18.1-122			17.6	23.5
n-Nitrosodiphenylamine	0.667	0.418	0.367	62.7	55.0	48.8-107			13.2	20
n-Nitrosodi-n-propylamine	0.667	0.416	0.381	62.3	57.2	43.3-109			8.58	20
Phenanthrene	0.667	0.427	0.369	64.0	55.4	51.6-107			14.4	20
Benzylbutyl phthalate	0.667	0.417	0.371	62.4	55.7	47.5-115			11.5	20
Bis(2-ethylhexyl)phthalate	0.667	0.408	0.373	61.2	55.9	48.1-116			9.16	20.5
Di-n-butyl phthalate	0.667	0.414	0.366	62.1	54.9	49.7-113			12.2	20
Diethyl phthalate	0.667	0.400	0.362	59.9	54.3	52.0-112			9.91	20
Dimethyl phthalate	0.667	0.411	0.370	61.7	55.5	51.4-108			10.5	20
Di-n-octyl phthalate	0.667	0.406	0.365	60.9	54.7	49.6-112			10.8	22
Pyrene	0.667	0.429	0.378	64.4	56.6	47.1-108			12.8	20
1,2,4-Trichlorobenzene	0.667	0.354	0.319	53.1	47.8	39.8-100			10.4	20
4-Chloro-3-methylphenol	0.667	0.431	0.388	64.6	58.1	51.1-113			10.6	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/05/16 02:32 • (LCSD) 02/05/16 02:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Chlorophenol	0.667	0.380	0.329	57.0	49.3	40.8-103			14.5	20
2,4-Dichlorophenol	0.667	0.396	0.342	59.4	51.3	46.2-109			14.6	20
2,4-Dimethylphenol	0.667	0.389	0.345	58.3	51.8	42.2-110			11.8	20
4,6-Dinitro-2-methylphenol	0.667	0.463	0.377	69.5	56.5	23.1-119			20.6	23.7
2,4-Dinitrophenol	0.667	0.263	0.217	39.5	32.5	10.0-105			19.3	36.5
2-Nitrophenol	0.667	0.403	0.345	60.3	51.8	44.2-113			15.3	20.9
4-Nitrophenol	0.667	0.397	0.368	59.5	55.2	34.8-109			7.38	20
Pentachlorophenol	0.667	0.483	0.398	72.5	59.6	16.2-102			19.5	22.9
Phenol	0.667	0.433	0.378	64.9	56.7	41.5-106			13.4	20
2,4,6-Trichlorophenol	0.667	0.414	0.362	62.0	54.2	44.4-108			13.5	20
(S) Nitrobenzene-d5				55.9	49.1	21.9-129				
(S) 2-Fluorobiphenyl				59.0	51.3	34.9-129				
(S) p-Terphenyl-d14				59.6	53.5	21.5-128				
(S) Phenol-d5				64.2	53.8	26.3-121				
(S) 2-Fluorophenol				59.2	49.0	21.1-116				
(S) 2,4,6-Tribromophenol				70.6	61.6	21.6-142				

L815482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 09:00 • (MS) 02/05/16 09:23 • (MSD) 02/05/16 09:46

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	ND	0.472	0.414	70.8	62.1	1	32.2-134			13.1	27.3
Acenaphthylene	0.667	ND	0.491	0.434	73.6	65.1	1	38.7-129			12.2	25.9
Anthracene	0.667	ND	0.458	0.470	68.6	70.5	1	32.3-137			2.75	28.4
Benzidine	0.667	ND	ND	ND	8.91	8.98	1	0.000-49.9			0.790	40
Benzo(a)anthracene	0.667	ND	0.467	0.483	70.1	72.4	1	33.3-124			3.25	29
Benzo(b)fluoranthene	0.667	ND	0.448	0.478	67.2	71.7	1	23.3-133			6.45	30.3
Benzo(k)fluoranthene	0.667	ND	0.471	0.494	70.6	74.0	1	31.0-129			4.81	26.7
Benzo(g,h,i)perylene	0.667	ND	0.454	0.530	68.0	79.5	1	10.0-127			15.6	31.9
Benzo(a)pyrene	0.667	ND	0.460	0.501	69.0	75.1	1	28.2-128			8.49	28.4
Bis(2-chlorethoxy)methane	0.667	ND	0.451	0.451	67.6	67.6	1	35.0-132			0.0200	26.1
Bis(2-chloroethyl)ether	0.667	ND	0.452	0.465	67.7	69.8	1	28.8-128			2.95	33.6
Bis(2-chloroisopropyl)ether	0.667	ND	0.468	0.454	70.1	68.0	1	31.8-118			3.06	31.7
4-Bromophenyl-phenylether	0.667	ND	0.460	0.467	68.9	70.0	1	39.0-130			1.60	26
2-Chloronaphthalene	0.667	ND	0.486	0.425	72.9	63.7	1	37.5-123			13.4	26.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

L815482-01

L815482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 09:00 • (MS) 02/05/16 09:23 • (MSD) 02/05/16 09:46

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.667	ND	0.471	0.421	70.6	63.1	1	37.9-123			11.3	25.9
Chrysene	0.667	ND	0.448	0.461	67.1	69.2	1	36.3-129			3.06	28
Dibenz(a,h)anthracene	0.667	ND	0.463	0.505	69.3	75.7	1	10.5-128			8.77	29.5
3,3-Dichlorobenzidine	0.667	ND	0.245	0.242	36.7	36.3	1	10.0-129			1.13	40
2,4-Dinitrotoluene	0.667	ND	0.479	0.421	71.8	63.1	1	27.8-147			12.8	29.7
2,6-Dinitrotoluene	0.667	ND	0.476	0.425	71.4	63.7	1	36.5-137			11.4	29.7
Fluoranthene	0.667	ND	0.463	0.462	69.3	69.3	1	27.9-138			0.0100	26.9
Fluorene	0.667	ND	0.452	0.409	67.7	61.3	1	34.0-133			10.0	27.1
Hexachlorobenzene	0.667	ND	0.492	0.514	73.8	77.1	1	34.4-116			4.32	25.4
Hexachloro-1,3-butadiene	0.667	ND	0.399	0.402	59.9	60.3	1	36.5-125			0.730	29.7
Hexachlorocyclopentadiene	0.667	ND	0.172	0.146	25.8	21.9	1	10.0-124			16.3	37.5
Hexachloroethane	0.667	ND	0.405	0.423	60.7	63.5	1	11.3-143			4.45	31.9
Indeno(1,2,3-cd)pyrene	0.667	ND	0.505	0.521	75.7	78.1	1	10.0-128			3.16	31.5
Isophorone	0.667	ND	0.488	0.492	73.2	73.7	1	25.7-116			0.700	27.7
Naphthalene	0.667	ND	0.446	0.443	66.9	66.4	1	36.4-121			0.850	27.2
Nitrobenzene	0.667	ND	0.454	0.449	68.0	67.4	1	30.9-134			0.990	27.8
n-Nitrosodimethylamine	0.667	ND	0.371	0.393	55.7	58.9	1	19.2-127			5.68	32
n-Nitrosodiphenylamine	0.667	ND	0.435	0.446	65.2	66.9	1	26.8-133			2.47	25.9
n-Nitrosodi-n-propylamine	0.667	ND	0.464	0.483	69.6	72.4	1	33.0-134			3.98	28.2
Phenanthrene	0.667	ND	0.455	0.463	68.3	69.4	1	30.8-137			1.60	26.5
Benzylbutyl phthalate	0.667	ND	0.442	0.454	66.3	68.0	1	33.4-128			2.57	28.5
Bis(2-ethylhexyl)phthalate	0.667	ND	0.422	0.437	63.3	65.5	1	21.8-141			3.42	35.2
Di-n-butyl phthalate	0.667	ND	0.439	0.451	65.8	67.6	1	32.2-133			2.69	25.9
Diethyl phthalate	0.667	ND	0.457	0.410	68.6	61.4	1	39.4-136			11.0	25.5
Dimethyl phthalate	0.667	ND	0.472	0.424	70.8	63.5	1	35.8-137			10.9	25.4
Di-n-octyl phthalate	0.667	ND	0.422	0.443	63.3	66.4	1	28.5-128			4.76	32.5
Pyrene	0.667	ND	0.450	0.464	67.4	69.6	1	24.1-130			3.10	29.9
1,2,4-Trichlorobenzene	0.667	ND	0.428	0.419	64.2	62.9	1	36.5-114			2.04	28.4
4-Chloro-3-methylphenol	0.667	ND	0.474	0.476	71.1	71.4	1	27.0-154			0.410	26.6
2-Chlorophenol	0.667	ND	0.452	0.456	67.7	68.4	1	33.2-121			1.00	29.3
2,4-Dichlorophenol	0.667	ND	0.444	0.442	66.5	66.3	1	34.8-134			0.370	27.3
2,4-Dimethylphenol	0.667	ND	0.459	0.444	68.9	66.6	1	12.3-149			3.38	32.3
4,6-Dinitro-2-methylphenol	0.667	ND	0.469	0.499	70.3	74.8	1	10.0-144			6.22	32.7
2,4-Dinitrophenol	0.667	ND	0.379	0.350	56.8	52.4	1	10.0-121			8.00	39.4
2-Nitrophenol	0.667	ND	0.456	0.452	68.3	67.8	1	29.5-144			0.760	29.9
4-Nitrophenol	0.667	ND	0.483	0.426	72.4	63.9	1	20.0-133			12.5	30.2

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L815482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/05/16 09:00 • (MS) 02/05/16 09:23 • (MSD) 02/05/16 09:46

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Pentachlorophenol	0.667	ND	0.576	0.583	86.4	87.4	1	10.0-139			1.16	28.3
Phenol	0.667	ND	0.492	0.504	73.8	75.5	1	25.1-130			2.39	29.6
2,4,6-Trichlorophenol	0.667	ND	0.483	0.426	72.4	63.9	1	33.8-133			12.4	28.1
(S) Nitrobenzene-d5					63.0	62.3		21.9-129				
(S) 2-Fluorobiphenyl					65.6	58.3		34.9-129				
(S) p-Terphenyl-d14					62.3	63.4		21.5-128				
(S) Phenol-d5					69.7	71.6		26.3-121				
(S) 2-Fluorophenol					68.2	69.1		21.1-116				
(S) 2,4,6-Tribromophenol					80.4	80.9		21.6-142				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

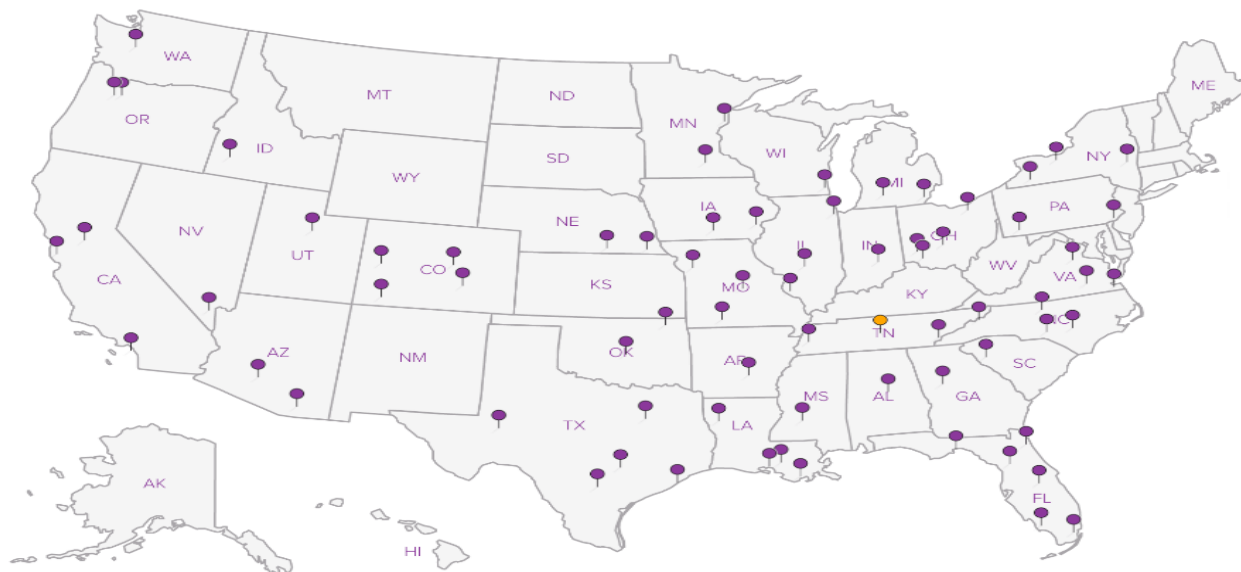
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

D050

Template:

Prelogin:

TSR: 288 - Daphne Richards

PB:

Shipped Via:

Rem./Contaminant	Sample # (lab only)
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[illegible]

657352235295

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Condition:	(lab use only)
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Relinquished by : (Signature)

Date:

Time:

Received by: (Signature)

Samples returned via: ☐ UPS

☒ FedEx ☐ Courier

Bottles Received:

COC Seal Intact: Y N NA

Relinquished by : (Signature)

Date:

Time:

Received by: (Signature)

Temp:

2.9 2902

pH Checked:

NCF:	
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Relinquished by : (Signature)

Date	
------	--

Time:

Received for lab by: (Signature)

Date:

2-4-16 090

Envirocon

Sample Delivery Group: L815995
Samples Received: 02/04/2016
Project Number: 1495001
Description: BBGRR23 Ft. McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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⁶ Qc: Quality Control Summary	6	⁵ Sr
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		⁹ Sc

R23P079Q-POSTXCSSE20-SW4 L815995-01 Solid

Collected by
Elizabeth M

Collected date/time
02/02/16 11:17

Received date/time
02/04/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847405	1	02/06/16 10:52	02/06/16 20:09	WBD
Total Solids by Method 2540 G-2011	WG846916	1	02/04/16 13:53	02/04/16 14:03	KDW

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.5		1	02/04/2016 14:03	WG846916

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	3.39		2.34	1	02/06/2016 20:09	WG847405
Lead	297		0.585	1	02/06/2016 20:09	WG847405

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/04/16 14:03

Analyte	MB Result %	MB Qualifier	MB RDL %
Total Solids	0.000700		

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L815477-18 Original Sample (OS) • Duplicate (DUP)

(OS) 02/04/16 14:03 • (DUP) 02/04/16 14:03

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.9	85.3	1	0.491		5

Laboratory Control Sample (LCS)

(LCS) 02/04/16 14:03

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) 02/06/16 18:39

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Antimony	ND		2.00
Lead	ND		0.500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/06/16 18:42 • (LCSD) 02/06/16 18:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	95.0	102	95	102	80-120			7	20
Lead	100	95.2	102	95	102	80-120			7	20

L815915-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/06/16 18:47 • (MS) 02/06/16 18:56 • (MSD) 02/06/16 18:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	100	ND	77.8	72.8	78	73	1	75-125		J6	7	20
Lead	100	7.12	106	104	99	97	1	75-125			2	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

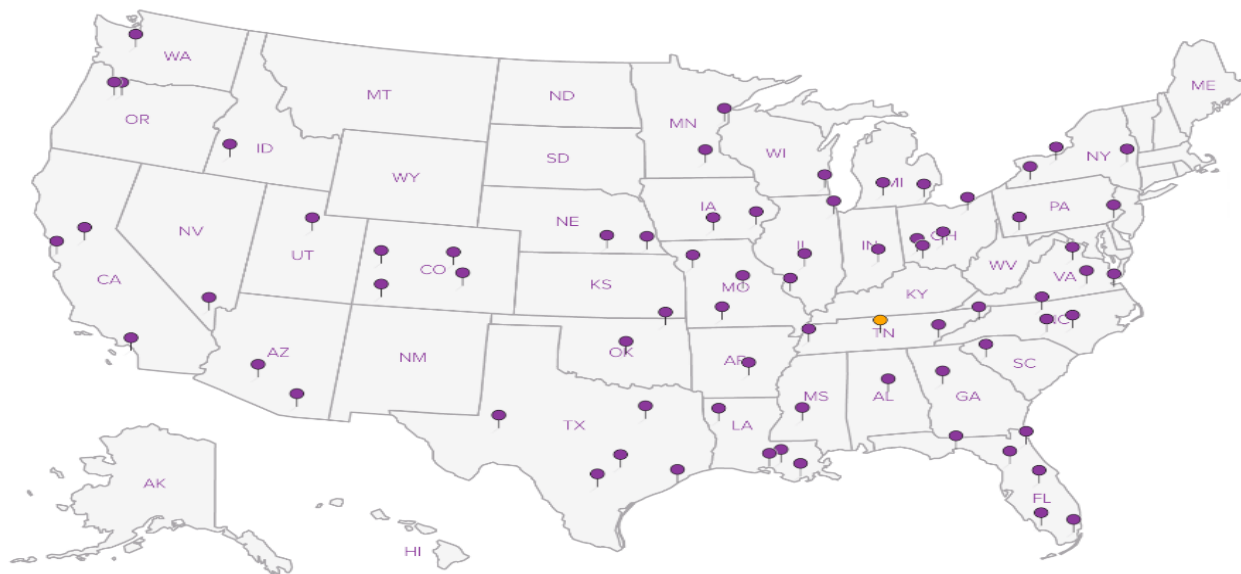
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Andy Vann

From: Daphne Richards
Sent: Friday, February 05, 2016 2:32 PM
To: Login
Cc: John Davis
Subject: Relog L815477-16 R2 ENVIRONGCO

Please relog L815477-16 for PBICP and SBICP confirmation
Please transfer TS results WG846916

thanks

Daphne Richards
Technical Service Representative
E-mail: drichards@esclabsciences.com
Phone: 800-767-5859 Ext. 9662
Direct: 615-773-9662



Envirocon

Sample Delivery Group: L816371
Samples Received: 02/09/2016
Project Number: 1495001
Description: BBG RR23 Ft. McClellan
Site: RANGE 23
Report To: Liz Milodragovich
7878 Wadsworth Blvd, Ste 340
Arvada, CO 80003

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

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⁷Gl: Glossary of Terms	45





⁸Al: Accreditations & Locations

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⁹Sc: Chain of Custody

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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc



R23P079Q-POSTXCSSH4-A L816371-01 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 13:36	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 02:40	CCE
Total Solids by Method 2540 G-2011	WG847984	1	02/09/16 13:02	02/09/16 13:09	MEL

¹ Cp

² Tc

³ Ss

R23P079Q-POSTXCSSH4-B L816371-02 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 13:40	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 02:55	CCE
Total Solids by Method 2540 G-2011	WG847984	1	02/09/16 13:02	02/09/16 13:09	MEL

⁴ Cn

⁵ Sr

⁶ Qc

R23P079Q-POSTXCSSH4-BS L816371-03 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 13:45	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 02:58	CCE
Total Solids by Method 2540 G-2011	WG847984	1	02/09/16 13:02	02/09/16 13:09	MEL

⁷ Gl

⁸ Al

⁹ Sc

R23P079Q-POSTXCSSH4-BDUP L816371-04 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 13:48	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:02	CCE
Total Solids by Method 2540 G-2011	WG847984	1	02/09/16 13:02	02/09/16 13:09	MEL

R23P079Q-POSTXCSSH4-C L816371-05 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 13:53	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:05	CCE
Total Solids by Method 2540 G-2011	WG847984	1	02/09/16 13:02	02/09/16 13:09	MEL

R23P079Q-POSTXCSSH4-D L816371-06 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 13:57	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:14	CCE
Total Solids by Method 2540 G-2011	WG847984	1	02/09/16 13:02	02/09/16 13:09	MEL

R23P079Q-POSTXCSSH4-SW1 L816371-07 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 14:00	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	50	02/09/16 12:04	02/10/16 03:17	CCE
Total Solids by Method 2540 G-2011	WG847984	1	02/09/16 13:02	02/09/16 13:09	MEL



R23P079Q-POSTXCSSH4-SW2 L816371-08 Solid

Collected by
Elizabeth M

Collected date/time
02/07/16 14:03

Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:20	CCE
Total Solids by Method 2540 G-2011	WG847984	1	02/09/16 13:02	02/09/16 13:09	MEL

¹ Cp

² Tc

³ Ss

R23P079Q-POSTXCSSH4-SW3 L816371-09 Solid

Collected by
Elizabeth M

Collected date/time
02/07/16 14:06

Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:23	CCE
Total Solids by Method 2540 G-2011	WG847984	1	02/09/16 13:02	02/09/16 13:09	MEL

⁴ Cn

⁵ Sr

⁶ Qc

R23P079Q-POSTXCSSH4-SW4 L816371-10 Solid

Collected by
Elizabeth M

Collected date/time
02/07/16 14:10

Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:26	CCE
Total Solids by Method 2540 G-2011	WG847984	1	02/09/16 13:02	02/09/16 13:09	MEL

⁷ Gl

⁸ Al

⁹ Sc

R23P079Q-POSTXCSSH3-A L816371-11 Solid

Collected by
Elizabeth M

Collected date/time
02/07/16 14:22

Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:29	CCE
Total Solids by Method 2540 G-2011	WG847986	1	02/09/16 13:10	02/09/16 13:18	MEL

R23P079Q-POSTXCSSH3-B L816371-12 Solid

Collected by
Elizabeth M

Collected date/time
02/07/16 14:25

Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:32	CCE
Total Solids by Method 2540 G-2011	WG847986	1	02/09/16 13:10	02/09/16 13:18	MEL

R23P079Q-POSTXCSSH3-C L816371-13 Solid

Collected by
Elizabeth M

Collected date/time
02/07/16 14:28

Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:36	CCE
Total Solids by Method 2540 G-2011	WG847986	1	02/09/16 13:10	02/09/16 13:18	MEL

R23P079Q-POSTXCSSH3-D L816371-14 Solid

Collected by
Elizabeth M

Collected date/time
02/07/16 14:31

Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:39	CCE
Total Solids by Method 2540 G-2011	WG847986	1	02/09/16 13:10	02/09/16 13:18	MEL



R23P079Q-POSTXCSSH3-SW1 L816371-15 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 14:35	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:42	CCE
Total Solids by Method 2540 G-2011	WG847986	1	02/09/16 13:10	02/09/16 13:18	MEL

¹ Cp

² Tc

³ Ss

R23P079Q-POSTXCSSH3-SW2 L816371-16 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 14:38	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:51	CCE
Total Solids by Method 2540 G-2011	WG847986	1	02/09/16 13:10	02/09/16 13:18	MEL

⁴ Cn

⁵ Sr

⁶ Qc

R23P079Q-POSTXCSSH3-SW3 L816371-17 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 14:40	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:54	CCE
Total Solids by Method 2540 G-2011	WG847986	1	02/09/16 13:10	02/09/16 13:18	MEL

⁷ Gl

⁸ Al

⁹ Sc

R23P079Q-POSTXCSSH3-SW4 L816371-18 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 14:44	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 03:57	CCE
Total Solids by Method 2540 G-2011	WG847986	1	02/09/16 13:10	02/09/16 13:18	MEL

R23P079Q-POSTXCSSF14-A L816371-19 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 15:10	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG848000	1	02/09/16 12:59	02/10/16 04:12	CCE
Total Solids by Method 2540 G-2011	WG847986	1	02/09/16 13:10	02/09/16 13:18	MEL

R23P079Q-POSTXCSSF14-AS L816371-20 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 15:13	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG847966	1	02/09/16 12:04	02/10/16 04:00	CCE
Total Solids by Method 2540 G-2011	WG847986	1	02/09/16 13:10	02/09/16 13:18	MEL

R23P079Q-POSTXCSSF14-B L816371-21 Solid

			Collected by Elizabeth M	Collected date/time 02/07/16 15:17	Received date/time 02/09/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG848000	1	02/09/16 12:59	02/10/16 04:33	CCE
Total Solids by Method 2540 G-2011	WG847987	1	02/09/16 12:39	02/09/16 12:49	MEL



R23P079Q-POSTXCSSF14-C L816371-22 Solid

Collected by
Elizabeth MCollected date/time
02/07/16 15:20Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG848000	1	02/09/16 12:59	02/10/16 04:36	CCE
Total Solids by Method 2540 G-2011	WG847987	1	02/09/16 12:39	02/09/16 12:49	MEL

¹ Cp² Tc³ Ss

R23P079Q-POSTXCSSF14-C DUP L816371-23 Solid

Collected by
Elizabeth MCollected date/time
02/07/16 15:24Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG848000	1	02/09/16 12:59	02/10/16 04:40	CCE
Total Solids by Method 2540 G-2011	WG847987	1	02/09/16 12:39	02/09/16 12:49	MEL

⁴ Cn⁵ Sr⁶ Qc

R23P079Q-POSTXCSSF14-D L816371-24 Solid

Collected by
Elizabeth MCollected date/time
02/07/16 15:27Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG848000	1	02/09/16 12:59	02/10/16 04:43	CCE
Total Solids by Method 2540 G-2011	WG847987	1	02/09/16 12:39	02/09/16 12:49	MEL

⁷ Gl⁸ Al⁹ Sc

R23P079Q-POSTXCSSF14-SW1 L816371-25 Solid

Collected by
Elizabeth MCollected date/time
02/07/16 15:30Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG848000	1	02/09/16 12:59	02/10/16 04:46	CCE
Total Solids by Method 2540 G-2011	WG847987	1	02/09/16 12:39	02/09/16 12:49	MEL

R23P079Q-POSTXCSSF14-SW2 L816371-26 Solid

Collected by
Elizabeth MCollected date/time
02/07/16 15:34Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG848000	1	02/09/16 12:59	02/10/16 04:49	CCE
Total Solids by Method 2540 G-2011	WG847987	1	02/09/16 12:39	02/09/16 12:49	MEL

R23P079Q-POSTXCSSF14-SW3 L816371-27 Solid

Collected by
Elizabeth MCollected date/time
02/07/16 15:37Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG848000	1	02/09/16 12:59	02/10/16 04:52	CCE
Total Solids by Method 2540 G-2011	WG847987	1	02/09/16 12:39	02/09/16 12:49	MEL

R23P079Q-POSTXCSSF14-SW4 L816371-28 Solid

Collected by
Elizabeth MCollected date/time
02/07/16 15:40Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG848000	1	02/09/16 12:59	02/10/16 04:55	CCE
Total Solids by Method 2540 G-2011	WG847987	1	02/09/16 12:39	02/09/16 12:49	MEL



R23P079Q-POSTXCSSF14-SW5 L816371-29 Solid

Collected by
Elizabeth MCollected date/time
02/07/16 15:42Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG848000	1	02/09/16 12:59	02/10/16 05:04	CCE
Total Solids by Method 2540 G-2011	WG847987	1	02/09/16 12:39	02/09/16 12:49	MEL

¹ Cp² Tc³ Ss

R23P079Q-POSTXCSSF16-A L816371-30 Solid

Collected by
Elizabeth MCollected date/time
02/07/16 15:45Received date/time
02/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG848000	1	02/09/16 12:59	02/10/16 05:08	CCE
Total Solids by Method 2540 G-2011	WG847987	1	02/09/16 12:39	02/09/16 12:49	MEL

⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Collected date/time: 02/07/16 13:36

L816371

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.6		1	02/09/2016 13:09	WG847984

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.36	1	02/10/2016 02:40	WG847966
Lead	117	J5	0.591	1	02/10/2016 02:40	WG847966

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.6		1	02/09/2016 13:09	WG847984

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.28	1	02/10/2016 02:55	WG847966
Lead	27.6		0.571	1	02/10/2016 02:55	WG847966

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	02/09/2016 13:09	WG847984

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.30	1	02/10/2016 02:58	WG847966
Lead	30.3		0.574	1	02/10/2016 02:58	WG847966

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.6		1	02/09/2016 13:09	WG847984

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.23	1	02/10/2016 03:02	WG847966
Lead	22.0		0.558	1	02/10/2016 03:02	WG847966

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.9		1	02/09/2016 13:09	WG847984

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.30	1	02/10/2016 03:05	WG847966
Lead	45.7		0.575	1	02/10/2016 03:05	WG847966

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.2		1	02/09/2016 13:09	WG847984

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	2.82		2.27	1	02/10/2016 03:14	WG847966
Lead	252		0.567	1	02/10/2016 03:14	WG847966

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.8		1	02/09/2016 13:09	WG847984

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	768		115	50	02/10/2016 03:17	WG847966
Lead	59600		28.8	50	02/10/2016 03:17	WG847966

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Collected date/time: 02/07/16 14:03

L816371

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.8		1	02/09/2016 13:09	WG847984

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	4.09		2.45	1	02/10/2016 03:20	WG847966
Lead	522		0.611	1	02/10/2016 03:20	WG847966

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.4		1	02/09/2016 13:09	WG847984

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.31	1	02/10/2016 03:23	WG847966
Lead	203		0.579	1	02/10/2016 03:23	WG847966

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.9		1	02/09/2016 13:09	WG847984

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.30	1	02/10/2016 03:26	WG847966
Lead	25.2		0.575	1	02/10/2016 03:26	WG847966

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.9		1	02/09/2016 13:18	WG847986

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.27	1	02/10/2016 03:29	WG847966
Lead	55.5		0.569	1	02/10/2016 03:29	WG847966

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.6		1	02/09/2016 13:18	WG847986

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.23	1	02/10/2016 03:32	WG847966
Lead	16.6		0.558	1	02/10/2016 03:32	WG847966

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 02/07/16 14:28

L816371

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.0		1	02/09/2016 13:18	WG847986

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	5.44		2.30	1	02/10/2016 03:36	WG847966
Lead	575		0.575	1	02/10/2016 03:36	WG847966

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Collected date/time: 02/07/16 14:31

L816371

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.9		1	02/09/2016 13:18	WG847986

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.30	1	02/10/2016 03:39	WG847966
Lead	36.5		0.575	1	02/10/2016 03:39	WG847966

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	02/09/2016 13:18	WG847986

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	10.6		2.25	1	02/10/2016 03:42	WG847966
Lead	682		0.562	1	02/10/2016 03:42	WG847966

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.7		1	02/09/2016 13:18	WG847986

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.31	1	02/10/2016 03:51	WG847966
Lead	38.4		0.577	1	02/10/2016 03:51	WG847966

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	02/09/2016 13:18	WG847986

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.23	1	02/10/2016 03:54	WG847966
Lead	30.8		0.559	1	02/10/2016 03:54	WG847966

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	02/09/2016 13:18	WG847986

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.28	1	02/10/2016 03:57	WG847966
Lead	11.3		0.571	1	02/10/2016 03:57	WG847966

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.4		1	02/09/2016 13:18	WG847986

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND	J6	2.37	1	02/10/2016 04:12	WG848000
Lead	7.80		0.593	1	02/10/2016 04:12	WG848000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.6		1	02/09/2016 13:18	WG847986

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.36	1	02/10/2016 04:00	WG847966
Lead	10.6		0.591	1	02/10/2016 04:00	WG847966

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.6		1	02/09/2016 12:49	WG847987

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.34	1	02/10/2016 04:33	WG848000
Lead	71.5		0.584	1	02/10/2016 04:33	WG848000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.0		1	02/09/2016 12:49	WG847987

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		2.47	1	02/10/2016 04:36	WG848000
Lead	439		0.617	1	02/10/2016 04:36	WG848000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 02/07/16 15:24

L816371

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.3		1	02/09/2016 12:49	WG847987

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.52	1	02/10/2016 04:40	WG848000
Lead	203		0.631	1	02/10/2016 04:40	WG848000

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.5		1	02/09/2016 12:49	WG847987

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.37	1	02/10/2016 04:43	WG848000
Lead	44.7		0.592	1	02/10/2016 04:43	WG848000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.6		1	02/09/2016 12:49	WG847987

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.42	1	02/10/2016 04:46	WG848000
Lead	21.8		0.605	1	02/10/2016 04:46	WG848000

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.7		1	02/09/2016 12:49	WG847987

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.36	1	02/10/2016 04:49	WG848000
Lead	159		0.591	1	02/10/2016 04:49	WG848000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.8		1	02/09/2016 12:49	WG847987

¹ Cp

² Tc

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.33	1	02/10/2016 04:52	WG848000
Lead	41.1		0.583	1	02/10/2016 04:52	WG848000

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.4		1	02/09/2016 12:49	WG847987

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.26	1	02/10/2016 04:55	WG848000
Lead	13.6		0.565	1	02/10/2016 04:55	WG848000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	02/09/2016 12:49	WG847987

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.33	1	02/10/2016 05:04	WG848000
Lead	11.9		0.583	1	02/10/2016 05:04	WG848000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.5		1	02/09/2016 12:49	WG847987

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.31	1	02/10/2016 05:08	WG848000
Lead	23.3		0.578	1	02/10/2016 05:08	WG848000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 02/09/16 13:09

	MB Result	<u>MB Qualifier</u>	MB RDL
Analyte	%		%
Total Solids	0.00100		

L816371-09 Original Sample (OS) • Duplicate (DUP)

(OS) 02/09/16 13:09 • (DUP) 02/09/16 13:09

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	86.4	83.8	1	3.05		5

Laboratory Control Sample (LCS)

(LCS) 02/09/16 13:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 02/09/16 13:18

	MB Result	<u>MB Qualifier</u>	MB RDL
Analyte	%		%
Total Solids	0.000		

L816371-18 Original Sample (OS) • Duplicate (DUP)

(OS) 02/09/16 13:18 • (DUP) 02/09/16 13:18

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	87.5	87.4	1	0.176		5

Laboratory Control Sample (LCS)

(LCS) 02/09/16 13:18

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

[L816371-21,22,23,24,25,26,27,28,29,30](#)

Method Blank (MB)

(MB) 02/09/16 12:49

Analyte	MB Result %	<u>MB Qualifier</u>	MB RDL %
Total Solids	0.000200		

L816371-24 Original Sample (OS) • Duplicate (DUP)

(OS) 02/09/16 12:49 • (DUP) 02/09/16 12:49

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Total Solids	84.5	82.1	1	2.91		5

Laboratory Control Sample (LCS)

(LCS) 02/09/16 12:49

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 02/10/16 00:37

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Antimony	ND		2.00
Lead	ND		0.500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/10/16 00:40 • (LCSD) 02/10/16 02:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	95.6	98.6	96	99	80-120			3	20
Lead	100	94.4	100	94	100	80-120			6	20

L816371-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/10/16 02:40 • (MS) 02/10/16 02:49 • (MSD) 02/10/16 02:52

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	100	0.518	81.9	82.5	81	82	1	75-125			1	20
Lead	100	99.1	232	228	133	129	1	75-125	J5	J5	1	20



Method Blank (MB)

(MB) 02/10/16 04:04

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Antimony	ND		2.00
Lead	ND		0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/10/16 04:06 • (LCSD) 02/10/16 04:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	98.1	99.9	98	100	80-120			2	20
Lead	100	98.5	100	98	100	80-120			2	20

L816371-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/10/16 04:12 • (MS) 02/10/16 04:27 • (MSD) 02/10/16 04:30

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	100	ND	68.9	79.3	69	79	1	75-125	J6		14	20
Lead	100	6.58	107	105	101	99	1	75-125			2	20



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

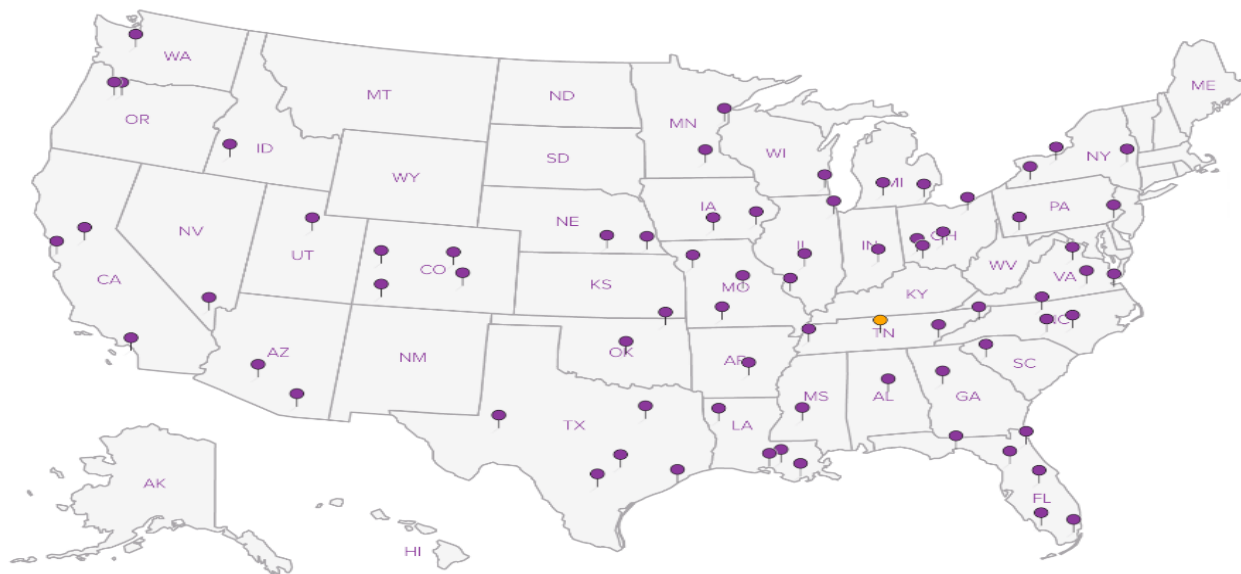
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Envirocon 101 International Dr 651 Corporate Circle Ste 114 Golden, CO 80020 Missoula, MT 59808				Billing Information: Gene McNutt 651 Corporate Circle Ste 114 Golden, CO 80020				Analysis / Container / Preservative										Chain of Custody Page 1 of 3									
				Report to: Elizabeth Milodragovich				Email To: emilodragovich@envirocon.com				 ESC L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859															
Project Description: BBGRRZ3 Ft McClellan				City/State Collected: Anniston, AL																							
Phone: 303-215-0187 Fax: 406-565-7576				Client Project # 1495001																							
Collected by (print): Elizabeth Milodragovich				Site/Facility ID # Range Z3																							
Collected by (signature): <i>[Signature]</i>				P.O. # ENVIRONGCO-1210145																							
Rush? (Lab MUST Be Notified) Same Day200% ☒ Next Day100% Two Day50% Three Day25%				Date Results Needed				L# 81631 J139																			
Immediately Packed on Ice N ☒ Y				Email? ☐ No ☒ Yes FAX? ☐ No ☐ Yes				Acctnum: ENVIRONGCO Template: Prelogin: TSR: 288 - Daphne Richards PB: Shipped Via:																			
Sample ID				Comp/Grab		Matrix *		Depth		Date		Time		No. of Cntrs		Rem./Contaminant Sample # (lab only)											
R23P079Q-POSTXCSSH4-A				Camp		SS				2/7/16		13:36		1		01											
R23P079Q-POSTXCSSH4-B												13:40		1		02											
R23P079Q-POSTXCSSH4-B5												13:45		1		03											
R23P079Q-POSTXCSSH4-BD												13:48		1		04											
R23P079Q-POSTXCSSH4-C												13:53		1		05											
R23P079Q-POSTXCSSH4-D												13:57		1		06											
R23P079Q-POSTXCSSH4-SW1 GRAB												14:00		1		07											
R23P079Q-POSTXCSSH4-SW2												14:03		1		08											
R23P079Q-POSTXCSSH4-SW3												14:06		1		09											
R23P079Q-POSTXCSSH4-SW4												14:10		1		10											
* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other																		pH _____ Temp _____ Flow _____ Other _____									
Remarks:																		6573 5223 5243 Hold # _____									
Relinquished by: (Signature) <i>[Signature]</i>				Date: 2/8/16		Time: 0800		Received by: (Signature) <i>[Signature]</i>				Samples returned via: ☐ UPS ☒ FedEx ☐ Courier				Condition: (lab use only) PB10											
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Temp: 25 °C Bottles Received: 30.4oz				COC Seal Intact: ☒ Y ☐ N ☐ NA											
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) <i>[Signature]</i>				Date: 2-9-16 Time: 0900				pH Checked: NCF:											

Envirocon
101 International Dr
651 Corporate Circle Ste 114
Golden, CO 80020
Missoula, MT 59808

Billing Information:

Gene McNutt
651 Corporate Circle Ste 114
Golden, CO 80020

Analysis / Container / Preservative

Chain of Custody Page 2 of 3



YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to: Elizabeth Milodragovich Email To: milodragovich@envirocon.com

Project Description: BBGRR23 Ft McKellan City/State: Anniston, AL

Phone: 303-215-0187 Client Project #: 1495001 Lab Project #
Fax: 406-565-7576

Collected by (print): Elizabeth Milodragovich Site/Facility ID #: Range 23 P.O. #: ENVIRONGCO-1210145

Collected by (signature): [Signature] Date Results Needed
Immediately Packed on Ice N ☒ Y ☐ Rush? (Lab MUST Be Notified)
Same Day 200%
☒ Next Day 100%
Two Day 50%
Three Day 25%
Email? ☐ No ☒ Yes
FAX? ☐ No ☐ Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
R23P079Q-POSTXCSSH3-A	Comp	SS		2/7/16	14:22	1
R23P079Q-POSTXCSSH3-B					14:25	1
R23P079Q-POSTXCSSH3-C					14:28	1
R23P079Q-POSTXCSSH3-D					14:31	1
R23P079Q-POSTXCSSH3-SW1 GRAB					14:35	1
R23P079Q-POSTXCSSH3-SW2					14:38	1
R23P079Q-POSTXCSSH3-SW3					14:40	1
R23P079Q-POSTXCSSH3-SW4					14:44	1
R23P079Q-POSTXCSSF14-A Comp					15:10	1
R23P079Q-POSTXCSSF14-A S					15:13	1

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by: (Signature) Date: 2/8/16 Time: 0800 Received by: (Signature)

Samples returned via: ☐ UPS

Condition: (lab use only)

Relinquished by: (Signature) Date: Time: Received by: (Signature)

Temp: 25 °C Bottles Received: 30

CDC Seal Intact: ☒ N ☐ NA

Relinquished by: (Signature) Date: Time: Received for lab by: (Signature)

Date: 2-9-16 Time: 0900

pH Checked: NCF:

Envirocon
101 International Dr
651 Corporate Circle Ste 114
Golden, CO 80020
Missoula, MT 59808

Billing Information:

Gene McNutt
651 Corporate Circle Ste 114
Golden, CO 80020

Report to:
Elizabeth Milodragovich

Email To:
lmilodragovich@envirocon.com

Project Description: BBGRR23 Ft McClellan

City/State
Collected: Anniston, AL

Phone: 303-215-0187
Fax: 406-565-7576

Client Project #
1495001

Lab Project #

Collected by (print): Elizabeth Milodragovich
Collected by (signature):

Site/Facility ID # Range Z3
P.O. # ENVIRONGCO-1210145

Immediately
Packed on Ice N ☒ Y

Rush? (Lab MUST Be Notified)
☒ Same Day200%
☒ Next Day100%
☐ Two Day50%
☐ Three Day25%

Date Results Needed

Email? ☐ No ☒ Yes
FAX? ☐ No ☐ Yes

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs														
R23P079Q-POSTXCSSF14-B	Comp	SS		2/7/16	15:17	1	X													21
R23P079Q-POSTXCSSF14-C					15:20	1	X													22
R23P079Q-POSTXCSSF14-CDup					15:24	1	X													23
R23P079Q-POSTXCSSF14-D					15:27	1	X													24
R23P079Q-POSTXCSSF14-SW1 Grab					15:30	1	X													25
R23P079Q-POSTXCSSF14-SW2					15:34	1	X													26
R23P079Q-POSTXCSSF14-SW3					15:37	1	X													27
R23P079Q-POSTXCSSF14-SW4					15:40	1	X													28
R23P079Q-POSTXCSSF14-SW5					15:42	1	X													29
R23P079Q-POSTXCSSF14-A Comp					15:45	1	X													30

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Samples returned via: ☒ UPS

Condition: (lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 2.5 °C Bottles Received: 30-402

COC Seal intact: ☒ Y ☐ N ☐ NA

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 2-7-16 Time: 0900

pH Checked: NCF:



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 81371

Table #

Acctnum: ENVIRONGCO

Template:

Prelogin:

TSR: 288 - Daphne Richards

PB:

Shipped Via:

Rem./Contaminant Sample # (lab only)